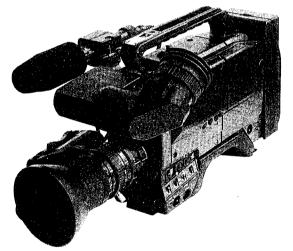
# JVC Service Manual



(Lens, viewfinder, microphone and camera adapter are optional)

MODEL KY-19

#### NOTES

- The KY-19 is a 3-CCD color video camera that the optical system of the KY-27 color video camera is changed. Namely, the KY-27 employs the 2/3" CCD while the KY-19 employs the 1/2" CCD.
  Therefore, this service manual only describes the matters that are different from the KY-27.
  On servicing, refer to the service manuals (No. 60061 for NTSC and No. 60072for NTSC/PAL) for the KY-27 together with this.
- The KY-19 is capacitated for incorporating all options for the KY-27 except the camera lens.

#### **TABLE OF CONTENTS**

Section	Title	Page
	IMPORTANT SAFETY PRECAUTIONS	
	DIFFERENT POINTS BETWEEN KY-19 AND KY-27 IN THEIR INSTRUCTIONS	
1	DIFFERENCES BETWEEN KY-19 AND KY-27	1 - 1
2	SERVICE CAUTIONS AND DISASSEMBLY	2 - 1
3	ADJUSTMENT PROCEDURE	
4	REPACKING	4 - 1
5	EXPLODED VIEWS AND PARTS LISTS	5 - 1
6	CHARTS AND DIAGRAMS	6 - 1
7	FLECTRICAL PARTS LIST	7 - 1

### **Important Safety Precautions**

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

#### Precautions during Servicing

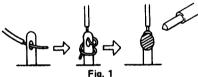
- Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- Parts identified by the symbol and shaded () parts are critical for safety.

Replace only with specified part numbers.

Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.
- 4. Use specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation Tape
- 3) Spacers
- 5) Barrier

- 2) PVC tubing
- 4) Insulation sheets for transistors
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.



- 7. Observe that wires do not contact heat producing parts (heat-sinks, oxide metal film resistors, fusible resistors, etc.)
- 8. Check that replaced wires do not contact sharp edged or pointed parts.
- When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

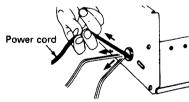


Fig. 2

- 10. Also check areas surrounding repaired locations.
- 11. Products using cathode ray tubes (CRTs)
  In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

- 12. Crimp type wire connector
  - In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.
  - 1) Connector part number: E03830-001
  - Required tool: Connector crimping tool of the proper type which will not damage insulated parts.
  - 3) Replacement procedure
    - (1) Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not reuse a connector (discard it).



(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.



(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

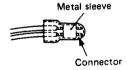
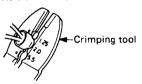


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.



Fia. 6

(5) Check the four points noted in Fig. 7.

Not easily pulled free Crimped at approx. center of metal sleeve

Conductors extended

Wire insulation recessed more than 4 mm

Fig. 7

#### Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

#### 1. Insulation resistance test

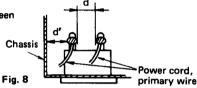
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

#### 2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

#### 3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

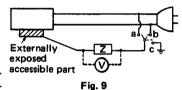


#### 4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. accessible part Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.



#### 5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

#### Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

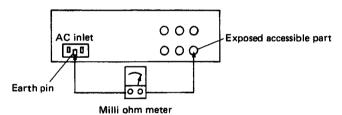


Fig. 10

#### **Grounding Specifications**

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V		D > 4 MO (500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V	Japan	R≧1 MΩ/500 V DC	AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	_	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R≧10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	$d \ge 4 \text{ mm}$ $d' \ge 8 \text{ mm (Power cord)}$ $d' \ge 6 \text{ mm (Primary wire)}$

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	0	i ≦ 1 mA rms	Exposed accessible parts
1 10 to 130 V	USA & Canada	0.15 μF	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V	0 to 130 V Europe & Australia	0—∕√√—0 2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
220 to 240 V		0	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

#### DIFFERENT POINTS BETWEEN KY-19 AND KY-27 IN THEIR INSTRUCTIONS

• Handling and operation methods of the KY-19 are the same as those of the KY-27 except the following points.

#### 1. Standard camera lens

Since the KY-19 employs the 1/2" CCD, the optical system is different from that of the KY-27 that employs the 2/3" CCD. In those circumstances, camera lenses for the 2/3" CCD of the KY-27 cannot be used for the KY-19.

The standard camera lenses and others usable for the KY-19 are as follows.

\$14X7.5B12 : Standard camera lens for the KY-19, for 1/2" CCD, 14X zoom lens (made by Fujinon)
 \$YH13X7.5K12 : Standard camera lens for the GY-X2, for 1/2" CCD, 13X zoom lens (made by Canon)
 \$HZ-714 : Standard camera lens for the GY-X1, for 1/2" CCD, 14X zoom lens (made by JVC)

• S16X6.7B12 : for 1/2" CCD, 16X zoom lens (made by Fujinon)

• YH17X7KRS12: for 1/2" CCD, 17X zoom lens (made by Canon)

In addition, the HZ-410 and HZ-416 camera lenses for the KY-15 (1/2" CCD) cannot be used for the KY-19 since their optical characteristics don't match the KY-19.

#### 2. Different matters in the specifications of KY-19 and KY-27

There are the following differences between the KY-19 and KY-27 in their specifications.

	KY-19	KY-27
Image size	1/2 inch	2/3 inch
Number of effective picture elements	NTSC: 768(H) × 494(V)	NTSC: 728(H) × 493(V)
·	PAL: 752(H) × 582(V)	PAL: 728(H) × 581(V)
Lens mount	1/2" bayonet	2/3" bayonet
Variable scan NTSC:	60.1 Hz to 2084.6 Hz (255 steps)	60.2 Hz to 1966.7 Hz (255 steps)
PAL:	50.1 Hz to 2067.8 Hz (305 steps)	50.0 Hz to 1953.1 Hz (305 steps)
Color temperature conversion filters	3 positions: ① 3200 K	4 positions: ① 3200 K
·	② 5600 K	② 5600 K
	③ 5600 K + 1/16 ND	③ 5600 K + 1/16 ND
		Effect (Crosslight)

# SECTION 1 DIFFERENCES BETWEEN KY-19 AND KY-27

#### 1.1 DIFFERENCES IN THE SPECIFICATIONS

- Standard camera lens
- Pickup device is different (KY-27: 2/3" CCD, KY-19: 1/2" CCD)
- Special effect (crosslight) filter (in KY-27 only)
   For details, see the "DIFFERENT POINTS BETWEEN KY-19 AND KY-27 IN THEIR INSTRUCTIONS" on the preceding page.

#### 1.2 DIFFERENCES IN THE MECHANISM

- Optical block assembly (including optical filter)
- Right side cover (silkprint of "KY-19" emblem)
   For details, see the "5. EXPLODED VIEWS AND PARTS LISTS".

#### 1.3 DIFFERENCES IN THE P. C. BOARDS

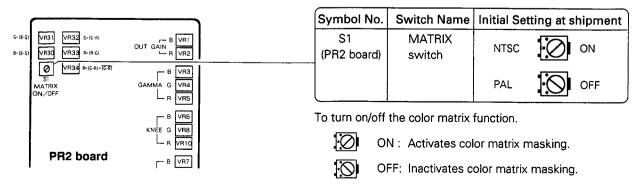
Board Name	Function and Remark	Difference	
ISB ISG ISR	Image sensor board Image sensor board Image sensor board		
DR1 DR2	CCD driver CCD driver	Designed for exclusive use of the KY-19.  These are not interchangeable with the KY-27's boards of the same names.	
PA	Pre Amplifier		
PR1	Video processing		
· CP1	CPU board	Board pattern is the same as that of the KY-27, but it differs from the KY-27's in the program ROM (IC2). (See Note.)	

**Note:** The board assemblies other than the above ones are used in the KY-19 and KY-27 in common with the exception that some of those used in early products of the KY-27 are not interchangeable.

# SECTION 2 SERVICE CAUTIONS AND DISASSEMBLY

**Notes:** • For disassembling methods and P. C. board arrangements of the KY-19, refer to the service manuals (No. 60061 and 60072) for the KY-27 since the two models are the same in those points.

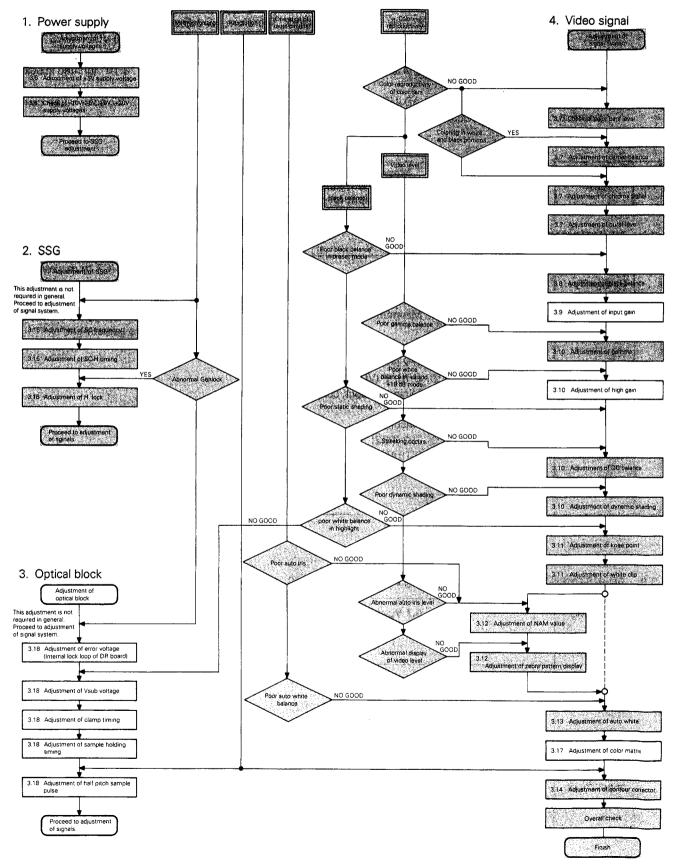
• In regard of the internal switch on the PR2 board, the KY-19 has the switch layout different from the KY-19 as shown below.



# SECTION 3 ADJUSTMENT PROCEDURE

**Note:** • Since adjustment methods of the items in the gray box ( ) are the same as for the KY-27, refer to the service manuals (No. 60061 and No. 60072) for the KY-27 for those adjustments.

#### 3.1 FLOWCHART OF ELECTRICAL ADJUSTMENTS



#### 3.2 REQUIRED EQUIPMENT AND STANDARD SETUP FOR ELECTRICAL ADJUSTMENT

#### 3.2.1 Necessary instruments (the same for the KY-27 except the camera lens as specified below)

9. Camera lens: S14X 7.5B12 or YH13X 7.5K12

- Notes: The KY-19 is different from the KY-27 only in the optical block. Therefore, for adjustments of the items described in the KY-27's service manual as the subsections "3.6 ADJUSTMENTS OF POWER SUPPLY (PS) VOLTAGES" through "3.16 ADJUSTMENT OF SSG (Adjustment of externally synchronizing mode)", refer to the service manuals No. 60061 and No. 60072 for the KY-27 with careful attention to the different setting levels in "3.9" and "3.10" (printed in boldface in the following).
  - The following method of the "3.17 ADJUSTMENT OF COLOR MATRIX" applies to the KY-27 color video cameras manufactured in and after October 1993 (serial number is 1585 \\_ \\_ \\_ \\_ \\_), too.

No.	Measuring instruments & Input signals	Measuring point ( ⊚ ) Adjustment parts ( ① ) Adjustment level ( ☆ )	Adjustment procedure
-----	---------------------------------------	---	----------------------

#### 3.8 ADJUSTMENT OF BLACK BALANCE

1-1 Trap frequency adjustment	Oscilloscope (H-rate, 10 : 1) Lens: Capped	B channel     TP1 [PR2]     B-TRAP (VC5) [PR1]     Minimum clock components      G channel     TP2 [PR2]     G-TRAP (VC6) [PR1]     Minimum clock components      R channel     TP3 [PR2]     R-TRAP (VC7) [PR1]     Minimum clock components      R channel	Adjust VC5, VC6 and VC7 to minimize clock components in the blanking portion of respective waveforms of B, G and R channels.  Note: This adjustment should precede "G channel black balance adjustment".
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#### 3.9 ADJUSTMENT OF INPUT GAIN (Setting of input signal level)

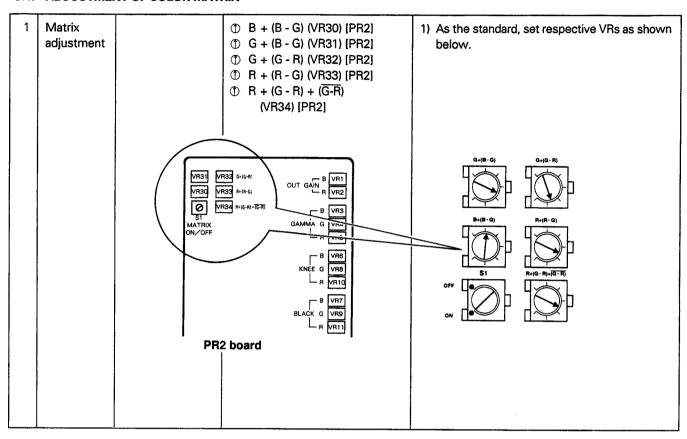
2	Iris setting	☆ 0.7 Vp-p <b>←</b>	

#### 3.10 ADJUSTMENT OF VIDEO LEVEL

3	High gain adjustment	☆ 0.23 Vp-p <b>←</b>	

No.	Item	Measuring instruments & Input signals	Measuring point ( ◎ ) Adjustment parts ( ① ) Adjustment level ( ☆ )	Adjustment procedure
-----	------	---	---	----------------------

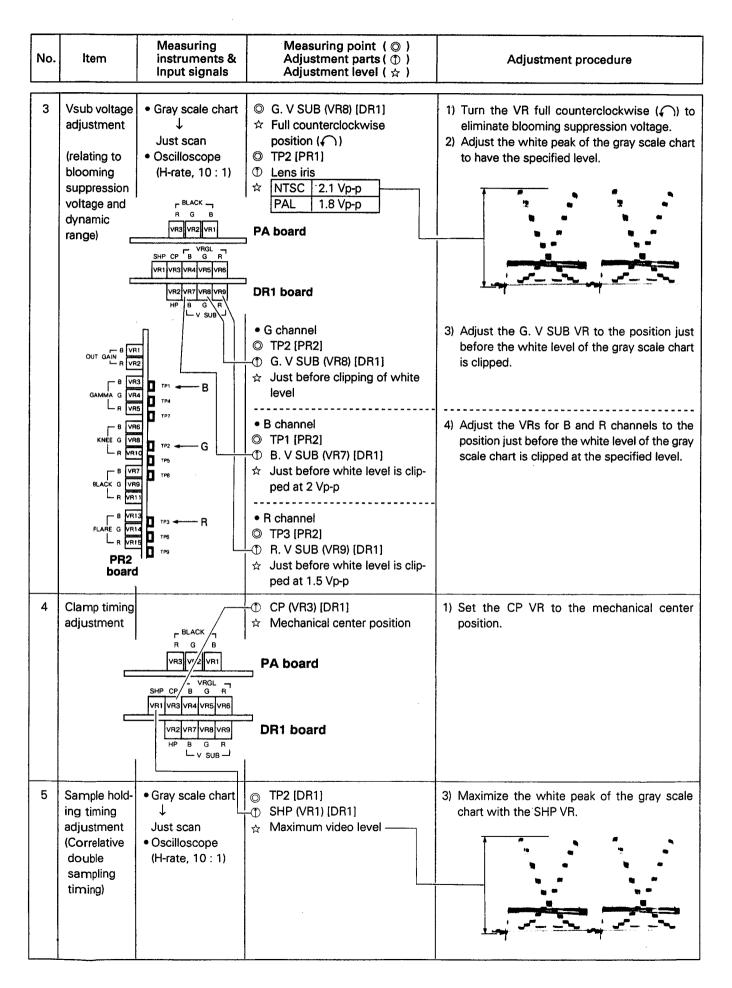
#### 3.17 ADJUSTMENT OF COLOR MATRIX

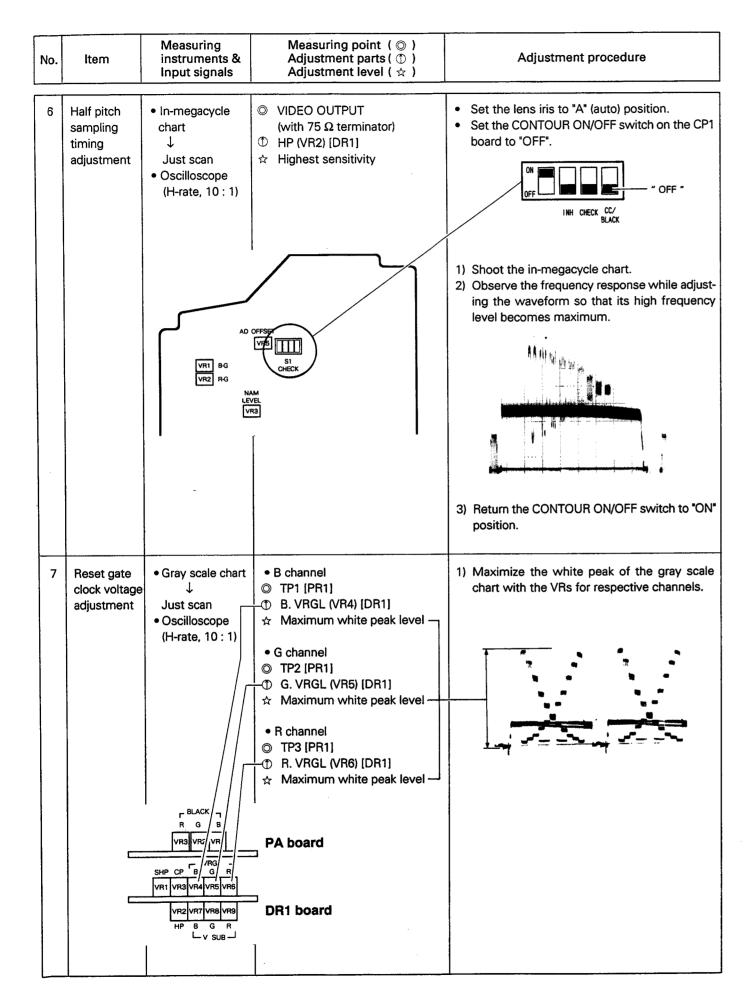


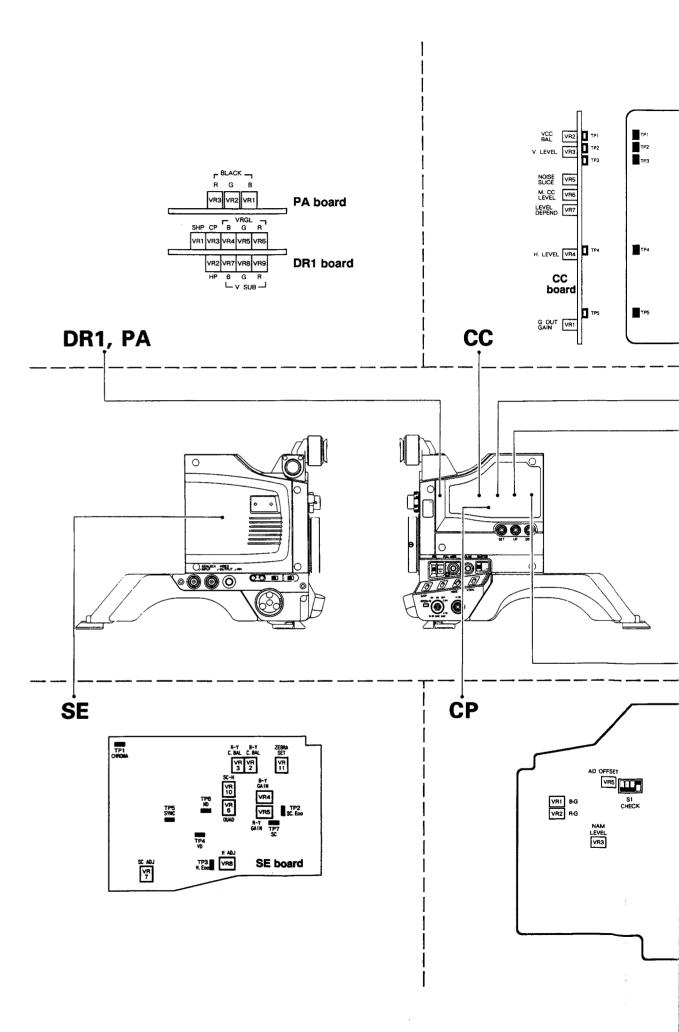
#### 3.18 ADJUSTMENT OF CCD DRIVER AND TIMING GENERATOR

Note: • This adjustment is required after the optical block assembly is replaced.

1	Preparation			Confirm that all settings of the camera are in the normal conditions (see page 3-3).
2	Error voltage adjustment (Internal lock loop of timing generator)	-	© TP1 [DR1]  ① Eoo (VR1) [DR2]  ☆ +2.5 V DC	1) Adjust the voltage as specified.









position. switch on the CP1



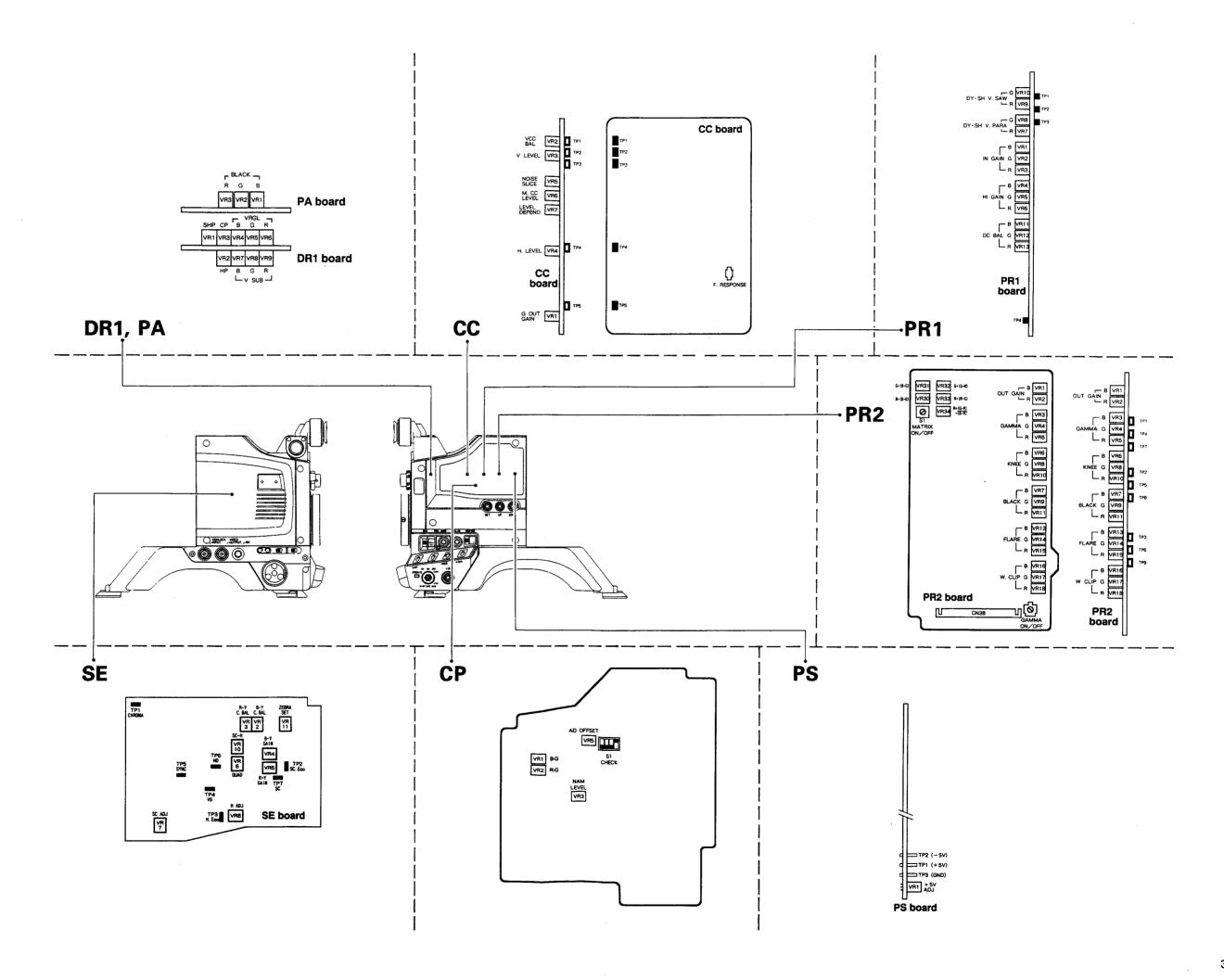
onse while adjustts high frequency



OFF switch to "ON"

of the gray scale ective channels.

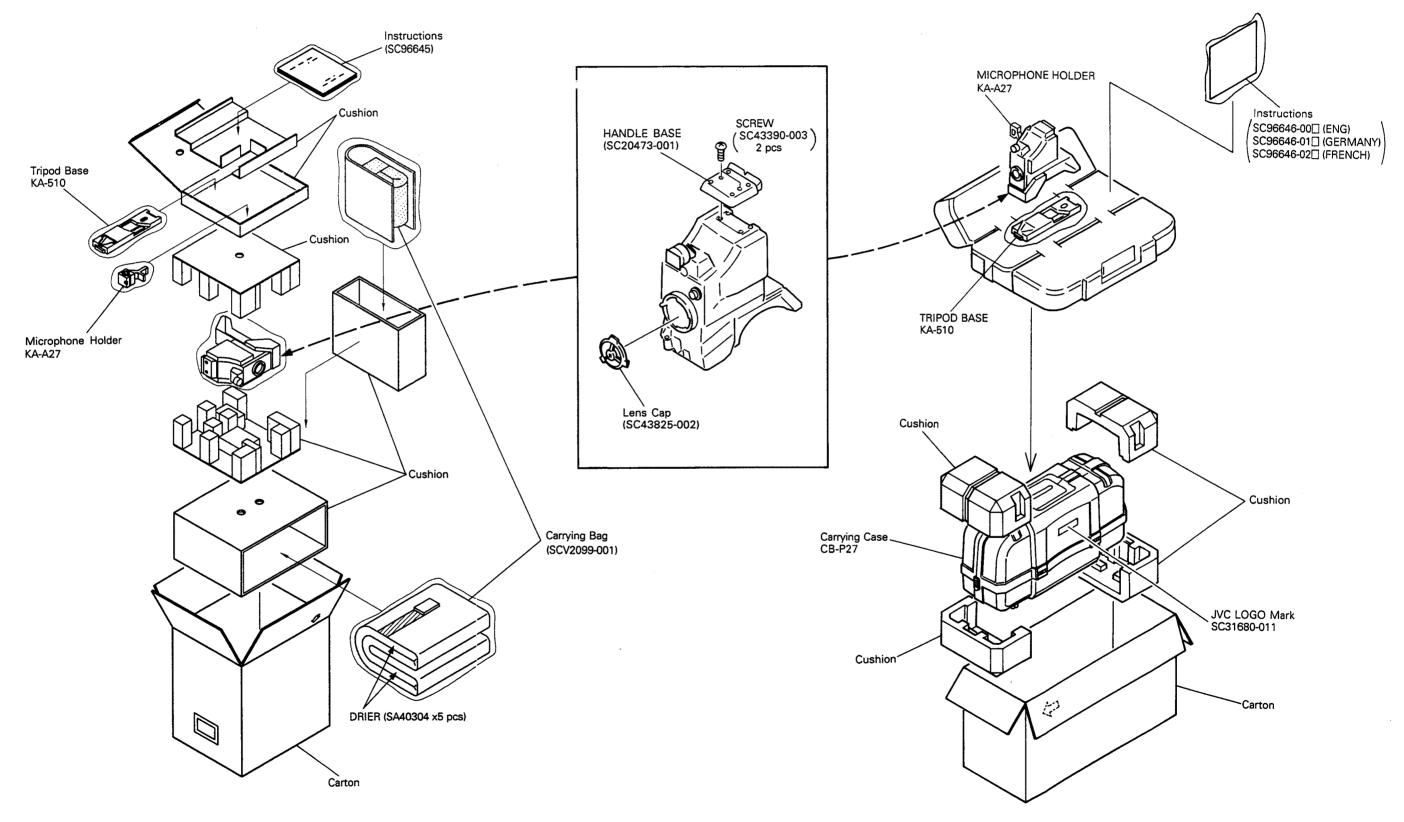




# **SECTION 4 REPACKING**

#### · CAMERA HEAD REPACKING (FOR U VERSION)

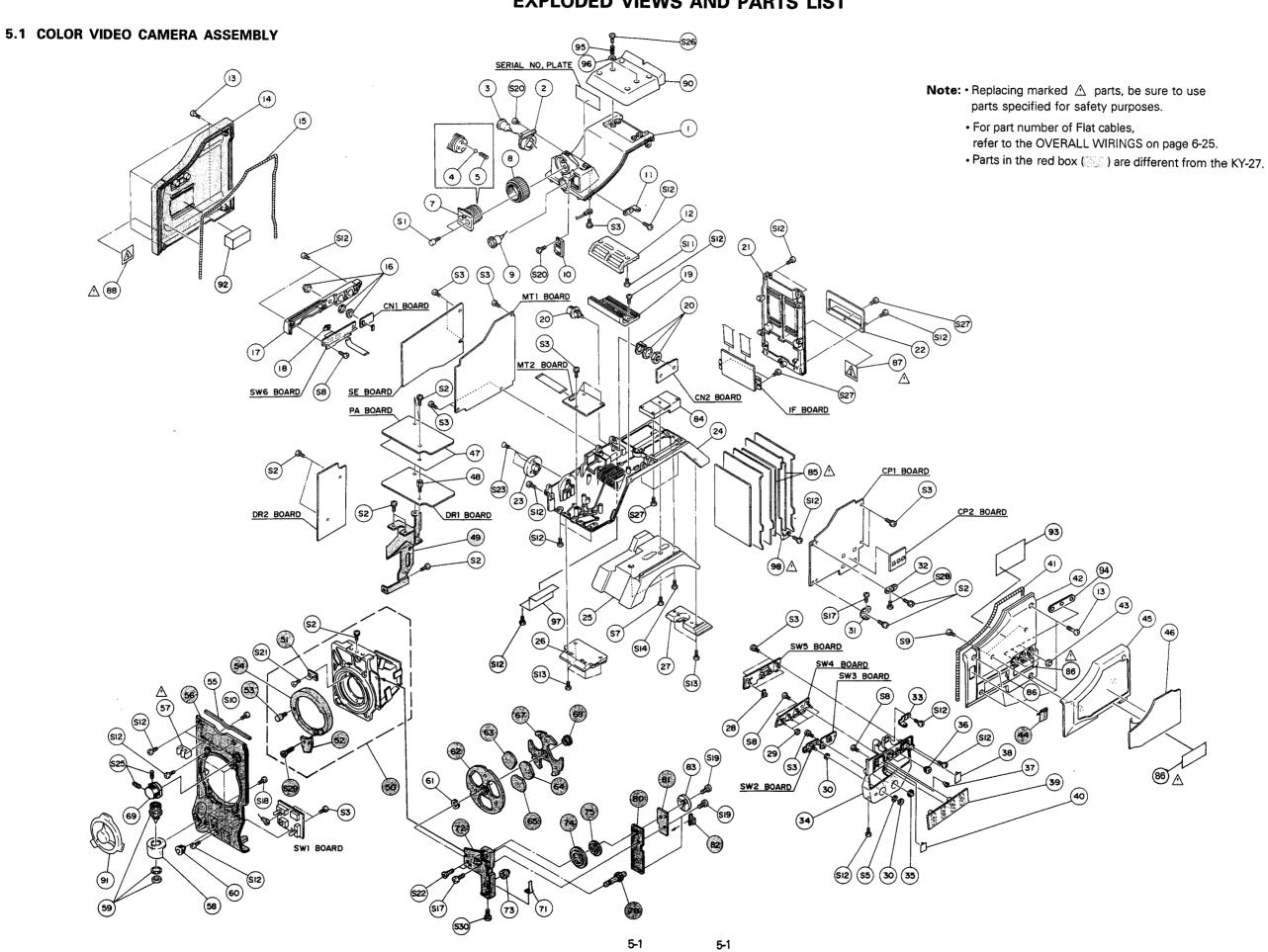
#### • CAMERA HEAD REPACKING (FOR E VERSION)



NOTE: ACCESSORIES ARE SUBJECT TO CHANGE DEPEND ON SALES VERSIONS.

NOTE: ACCESSORIES ARE SUBJECT TO CHANGE DEPEND ON SALES VERSIONS.

# SECTION 5 EXPLODED VIEWS AND PARTS LIST



#### • Camera head assembly parts list M1

	h a l			MIMM	
Sym No		Part No.	Part Name	Description	
	1	SC10150-001	TOP FRAME		
	2	SC31490-001	MIC CAP		
	3	SCV0238-06S	CONNECTOR		
	4	SC40465-045	STEEL BALL		
	5	SC45107-001	SPRING		
	6	-	-		
	7	SC31489-002	VF BASE		
	8	SC45127-002	VF RING		
	9	SCV0238-06S	CONNECTOR		
	10	SC45128-001	FRONT COVER		
	11	SC45120-011	B.BRACKET(2)	CP1 BOARD	
	12	SC31487-001	TOP RAIL	01 1 207.112	
	13	SC43397-008	SCREW	FOR SIDE COVER	
	14	SC10154-021	SIDE COVER(L)	TON SIDE COVER	
	15	SC44847-365	SHIELD TUBE		
	16	SCV1517-001	CONNECTOR	RM CONNENCTOR	
	17	SC20474-002	CN COVER	THE CONTENT OF	
	18	SC44556-002	KNOB	MIC RET SW	
	19	SC31488-001	BOTTOM RAIL	WII THE TOTAL	
	20	SCV0749-001	BNC RECEPTACLE	GENLOCK INPUT, VIDEO OUT	
	21	SC10149-001	REAR FRAME(V)		
	22	SC45125-001	CN.PLATE		
	23	SC40928-001	LOCK GEAR		
	24	SC10146-002	BOTTOM FRAME		
	25	SC10155-001	SHOULDER PAD		
			FRONT BASE		
	26 27	SC20479-002K SC31335-011	REAR BASE		
	28	SC43403-001	KNOB	IRIS SHUTTER	
	29	SC45264-001	RUBBER	for OPERATE SW	
	30	3049204-001	refer to the SW2 board assembly		
		SC45119-001	B.BRACKET(1)	CP1	
	31			CP1	
	32	SC45119-011	B.BRACKET(3)	CP1	
	33	SC45120-001	B.BRACKET(2)	CF I	
	34 35	SC20472-002 SC44828002	OPERATE COVER SWITCH CAP	VTR	
				The state of the s	
	36	SC44828-011	KNOB	LOLUX, FULL AUTO	
	37	SC43451-001	LED LENS	FULL AUTO	
	38	SC45131-001	STICKER	ON OFF V.SCAN	
	39	SC31491-002	SWITCH PANEL	OVER MORM UNDER	
	40	SC45131-011	STICKER	OVER NORM UNDER	
$\triangle$	41	SC44847-365	SHIELD TUBE		
	42	SC10153-002	SIDE COVER(R)		
	43	SC44828-011	SWITCH CAP	SET UP DOWN	
	44	SC45131-001	STICKER	FILTER	
	45	SC20475-001	CHEEK PAD		
	46	SC45145-001	PAD SHEET		
Δ	47	SC44826-003	SHIELD PLATE	for DR BOARD	
	48	SC44959-021	STUD		
	49	SC31773-001	BRACKET	FOR DR1, DR2, PA BOARD	
	50	SCM0806-NOA	OPTICAL BLOCK ASS'Y	FOR U VERSION	
		SCM0806-P0A	OPTICAL BLOCK ASS'Y	FOR E VERSION	
	51	SC44628-011	LENS PLATE		
	52	SC43855-001	SCREW		
	53	SC40779-001	MOUNT SCREW		
I	54	SC31305-003	MOUNT RING		

Symbol No.	Part No.	Part Name	Description
55 56 57 58 59	SC44847-050 SC10171-001 SC42550-011 SC44538-001 SCV1938-12S	SHIELD TUBE FRONT FRAME CABLE CLAMPER LENS CAP RECEPTACLE	
60 61 62 63 64	SC44828-011 Q03093-841 SC44488-001 SC43840-001 SC43841-001	KNOB WASHER F. SHEET FILTER FILTER	VTR 3200K 5600K
65 67 68 69 71	SC43842-003 SC31301-001 SC45539-001 SC31323-003 SC44627-001	FILTER FILTER WHEEL SHAFT FILTER KNOB FILTER SPRING	5600K + 6.3%ND
72 73 74 75 76	SC31307-001 SC44482-002 SC44485-001 SC44491-001 SC43397-008	FILTER BASE FILTER STOPPER FILTER.I.GEAR FILTER.I.SHAFT SCREW	
78 80 81 82 83	SC44486-001 SC31306-002 SC84505-002 SSV1766-006 SC44676-005	FILTER SHAFT FILTER COVER FP BOARD CONNECTOR FILTER CAP ASSY	
84 △ 85 △ 86 △ 86 △ 87	SC31482-001 SC41702-011 SC43658-001 PU54392-1 SC41957-012	VTR BASE(V) SHEET CAUTION LABEL CAUTION LABEL CAUTION LABEL	FOR 29 FOR U VERSION FOR E VERSION
≜ 88 ≜ 89 90 91 92	SC43948-001 QZL1001-006 SC20473-002 SC43825-002 SC45273-001	CAUTION LABEL CAUTION LABEL HANDLE BASE LENS CAP CUSHION	UL LABEL
93 94 95 96 97	SC45270-002 SC43650-011 SC45195-001 Q03093-817 SC45276-001	LABEL SHEET SPRING WASHER COVER	VR LOCATION
	SC45121-001 LPSP3004Z LPSP3006Z Q03091-202 SC43390-002	SHIELD PLATE SCREW SCREW WASHER SCREW	PS BOARDS1 BYS4025MBOLTM4×25 M3×4 M3×6
\$8 \$9 \$10 \$11 \$12	SDSF2606M SDSF3008M SDSP2006M SDSP3005M SDSP3006M	SCREW SCREW SCREW SCREW SCREW	M2.6×6 M3×6 M2×6 M3×5 M3×6
S13 S14 S17 S18 S19	SDSP3010M SDSP4008M SPSK2030M SPSK2040M SPSK2050M	SCREW SCREW SCREW SCREW SCREW	M3×10 M4×8 M2×3.0 M2×4.0 M2×5.0

Symbol No.	Part No.	Part Name	Description	
S20	SPSK2640M	SCREW	M2.6×4.0	
S21	SSSK2030M	SCREW	M2×3.0	
S22	SSSK2050M	SCREW	M2×5.0	
S23	SSSP3006M	SCREW	M3×6	
S25	YRS2603M	SCREW	M3×4	
S26	SC43390-003	SCREW		
S27	SDSP2606M	SCREW	M2.6×6	
S28	SPSK2060M	SCREW	M2×6	
S29	SSSP2604M	SCREW	M2.6×4	
S30	SPSK2025M	SCREW	M2 × 2.5	

# SECTION 6 CHARTS AND DIAGRAMS

#### ■ SCHEMATIC DIAGRAM NOTES

#### • Schematic safety precaution

A Parts are safety related parts.

When replacing them, be sure to use the specified parts.

Voltage and waveform measurements.

Voltage: Measured with digital voltmeter in DC range;

iris closed.

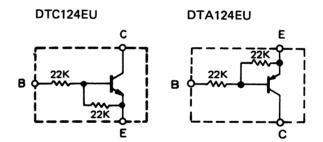
Waveform: Grey scale illuminated at more than 4000 lux

at 3200 K lighting.

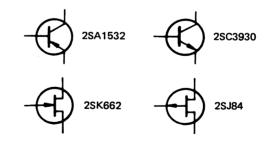
#### Terminal logic

Top bar of terminal name show input or output logic. Top bar shows, the control circuit become active at negative (low) logic input for example.

#### Digital transistors



•Unless otherwise specified transistors and F.E.T.s are:



- Definistion of the (A) and the (B) or circuit boards diagrams
- (A) : Side on which discrete parts are assembled
- (B) : Side on which only chip parts are assembled.

#### ■ REPLACING SUBMINIATURE "CHIP" PARTS

- ullet Some resistors, shorting jumpers (0  $\Omega$  resistance), ceramic capacitors, transistors, and diodes are chip parts. These chip parts cannot be reused after they are once removed.
- Chip resistors used in some circuits are of high precision type having little error in resistance.

To demonstrate the full capacity of this camera head, place an order for proper parts referring to the diagrams and parts lists in the sections 7.

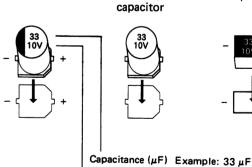
- Soldering cautions:
  - 1) Do not apply heat for more than 3 seconds.
  - 2) Avoid using a rubbing stroke when soldering.
  - 3) Discard removed chips; do not reuse them.
  - 4) Supplementary cementing is not required.
- 5) Use care not to scratch or otherwise damage the chips.
- Resistors and capacitors are not interchangeable with chip parts which are used in the color video cameras BY-110, KY-210, etc., because of difference in size. In case of order for parts, refer to the section 7 "ELEC-TRICAL PARTS LIST".
- Polarities of chip electrolytic capacitors and chip tanntalum capacitors used in this model are as illustrated below.

Polarities indicated by silk-screen printing on P.C. boards are also shown below. When replacing such parts, make sure of polarities.

• Electrolytic capacitor

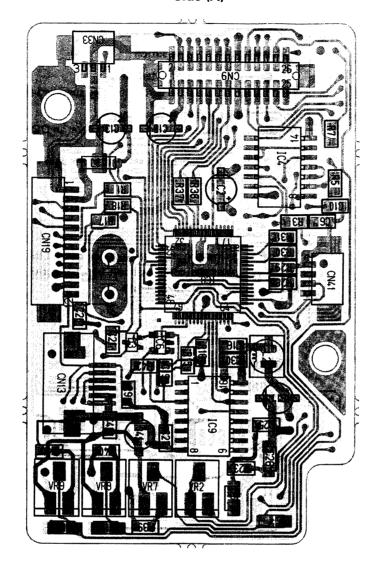
Non-polarized electrolytic

• Tantalum capacitor

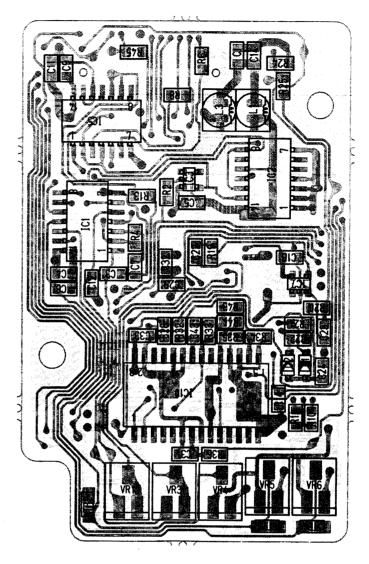


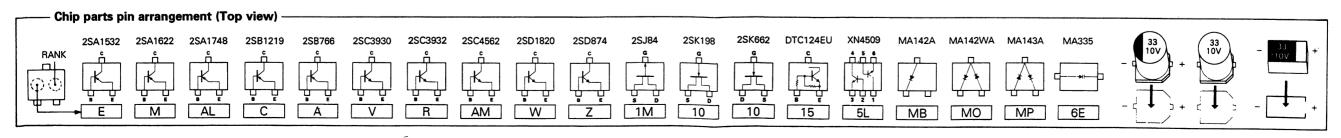
Dielectric strength (V) Example: 10 V

- Side (A) -

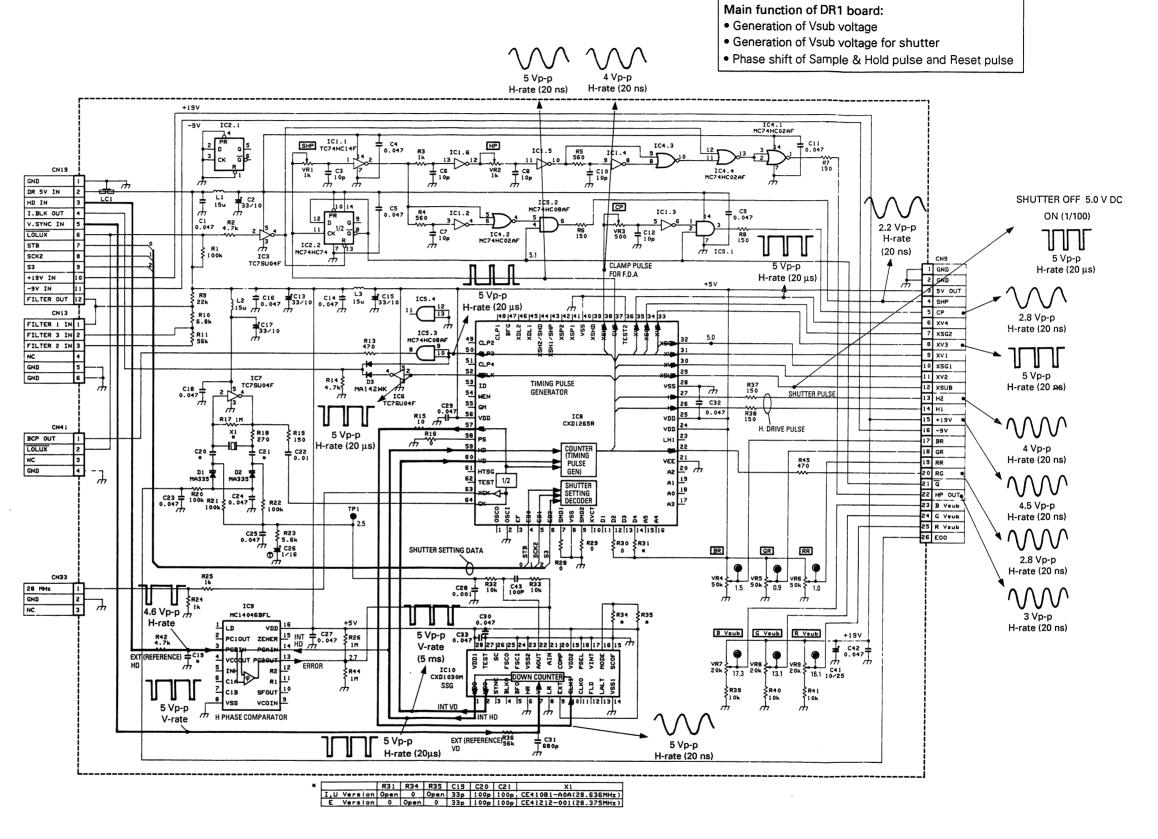


— Side (B) —

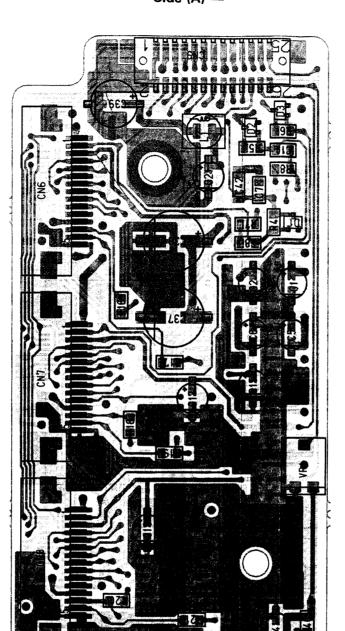




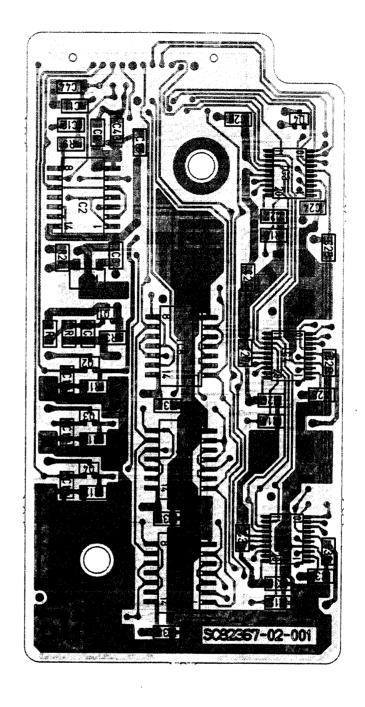
### 6.2 DR1 SCHEMATIC DIAGRAM 05 (CCD Driver No.1 circuit)

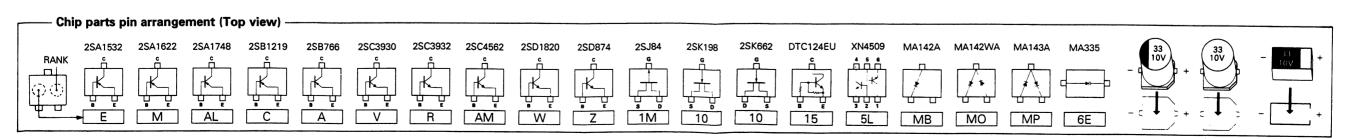


- Side (A) -



- Side (B) -

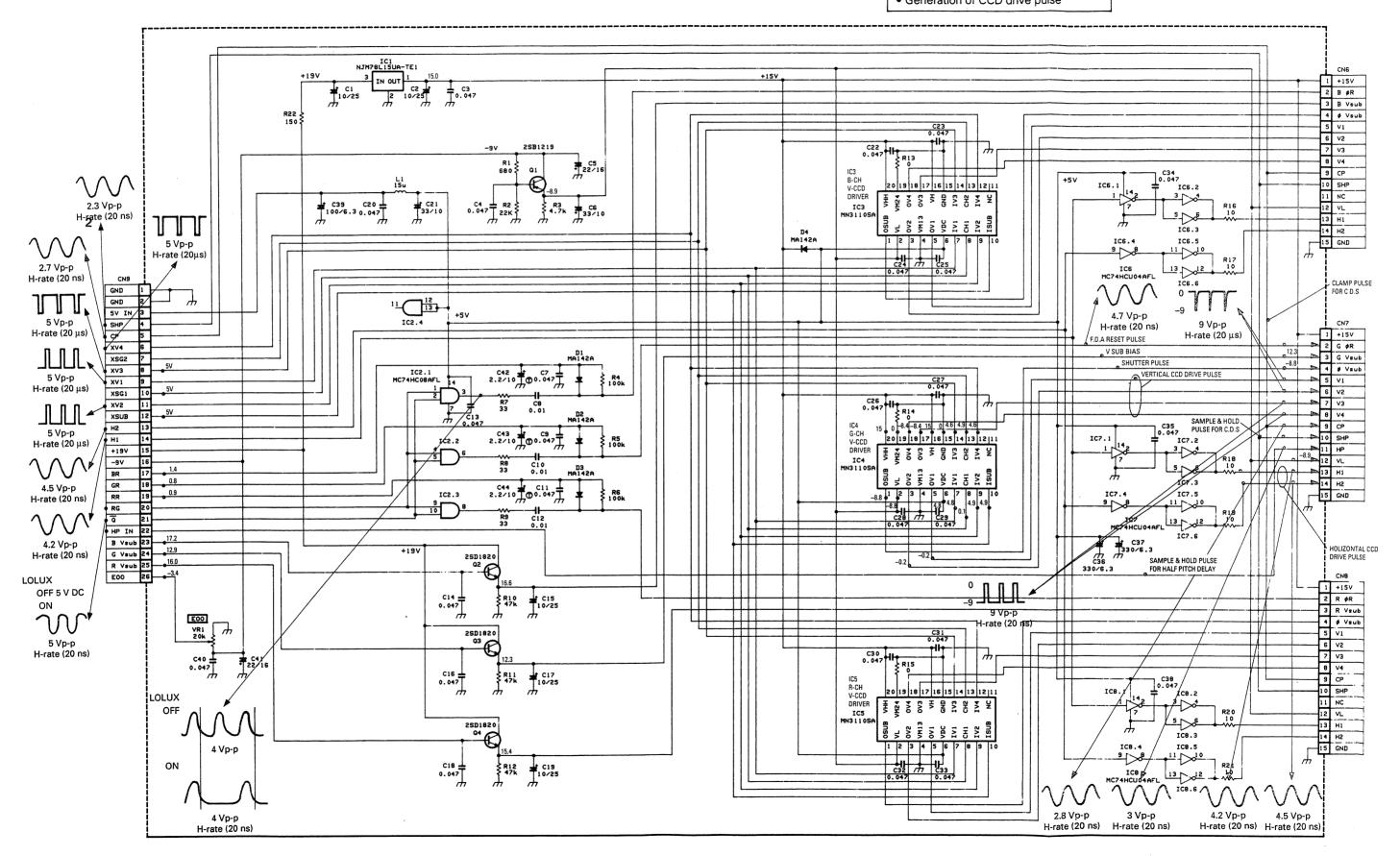




### 6.4 DR2 SCHEMATIC DIAGRAM 06 (CCD Driver No.2 circuit)

Main function of DR2 board:

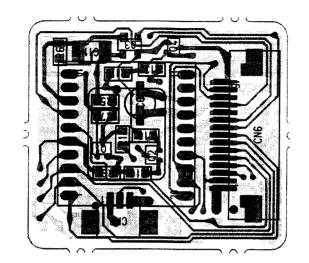
• Generation of CCD drive pulse



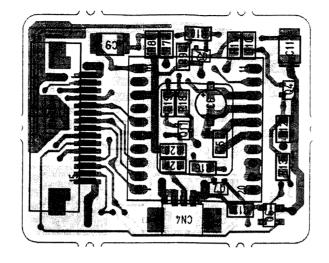
DR2

| IS

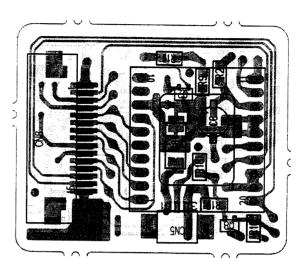
• ISB board



· ISG board

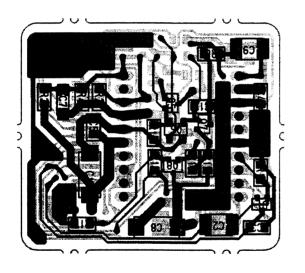


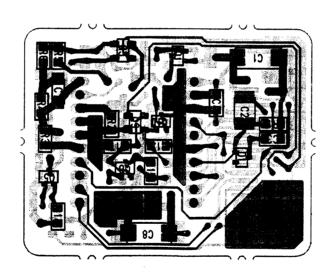
• ISR board

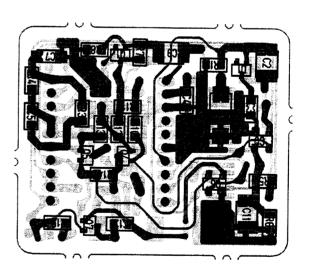


— Side (B) —

— Side (A) —



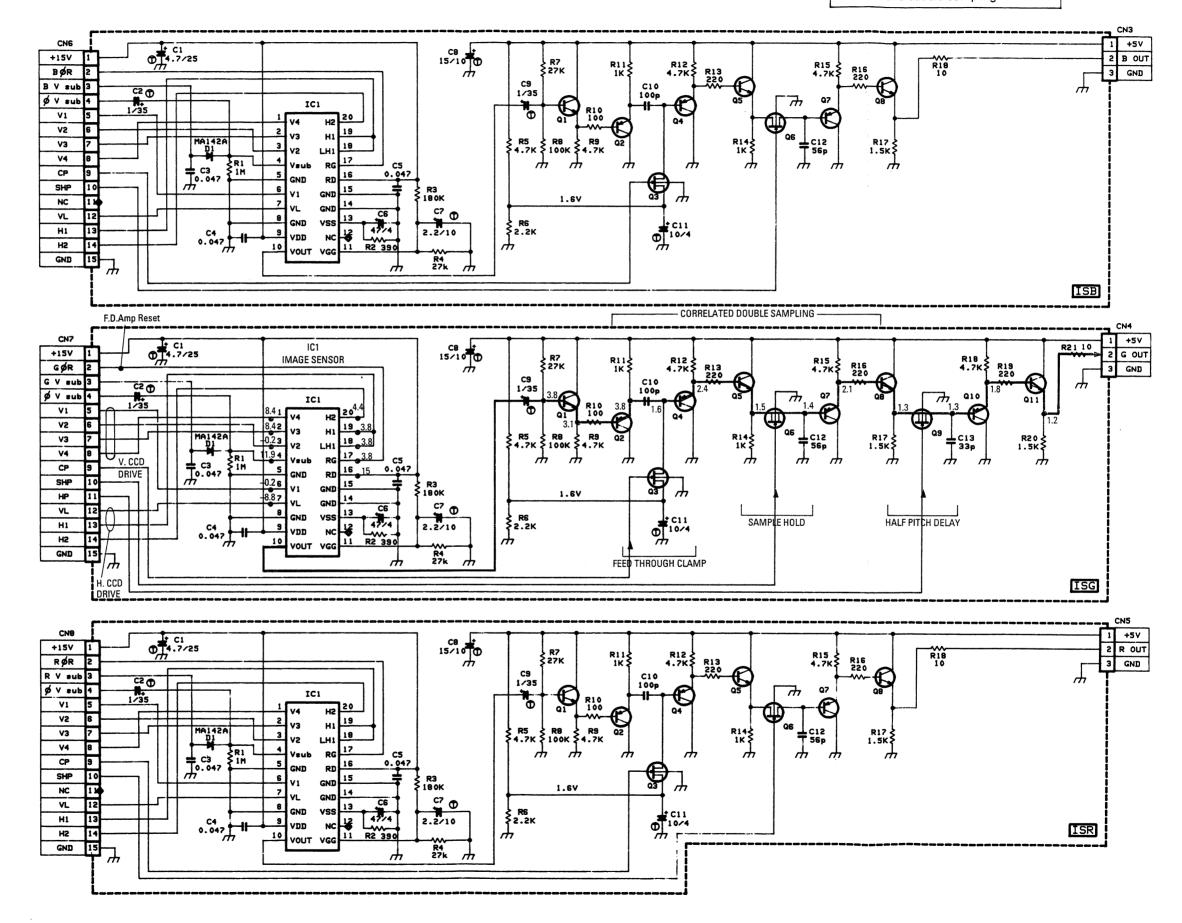


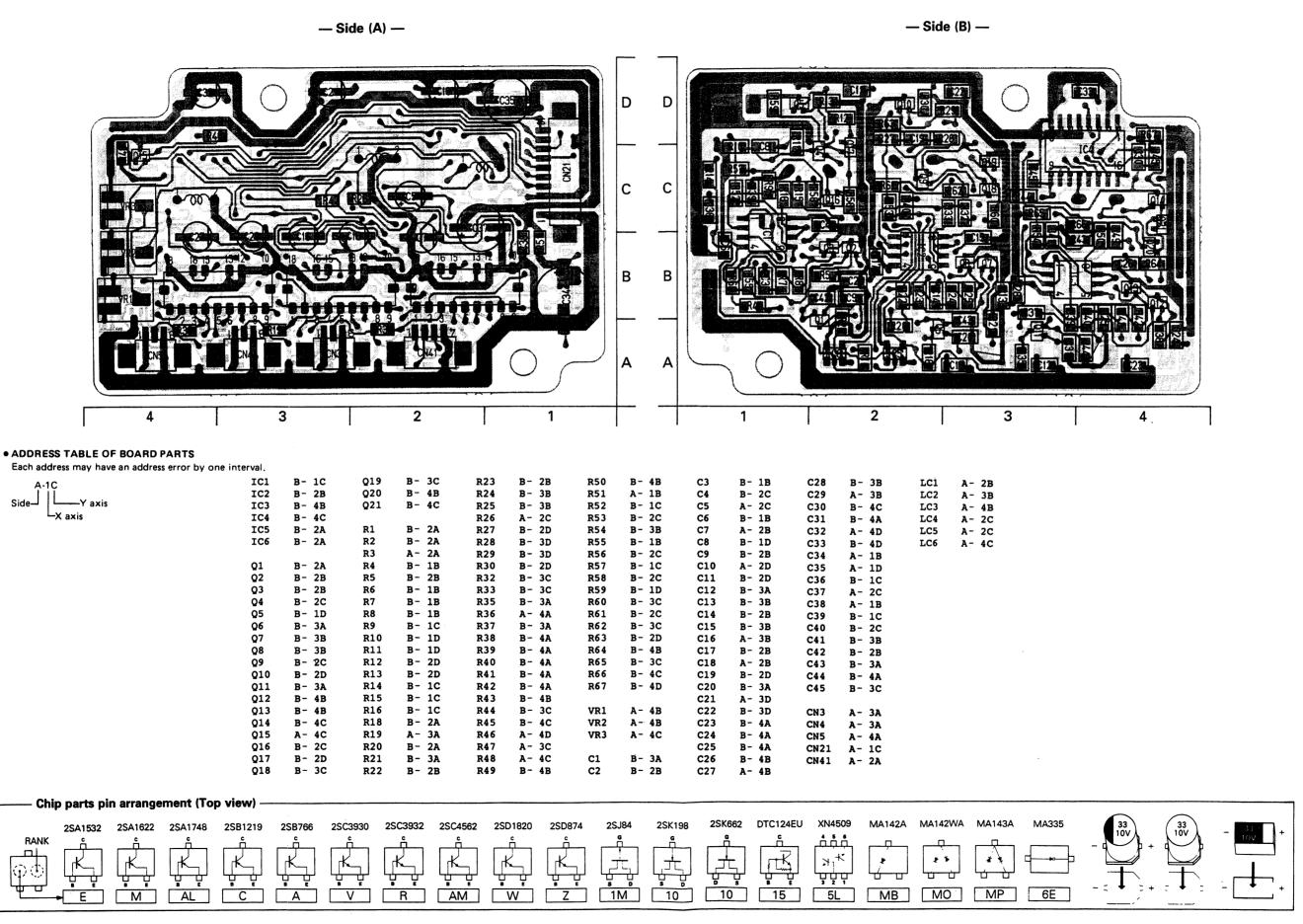


# 6.6 ISB/ISG/ISR SCHEMATIC DIAGRAMS 011/02/03 (Image Sensor board)

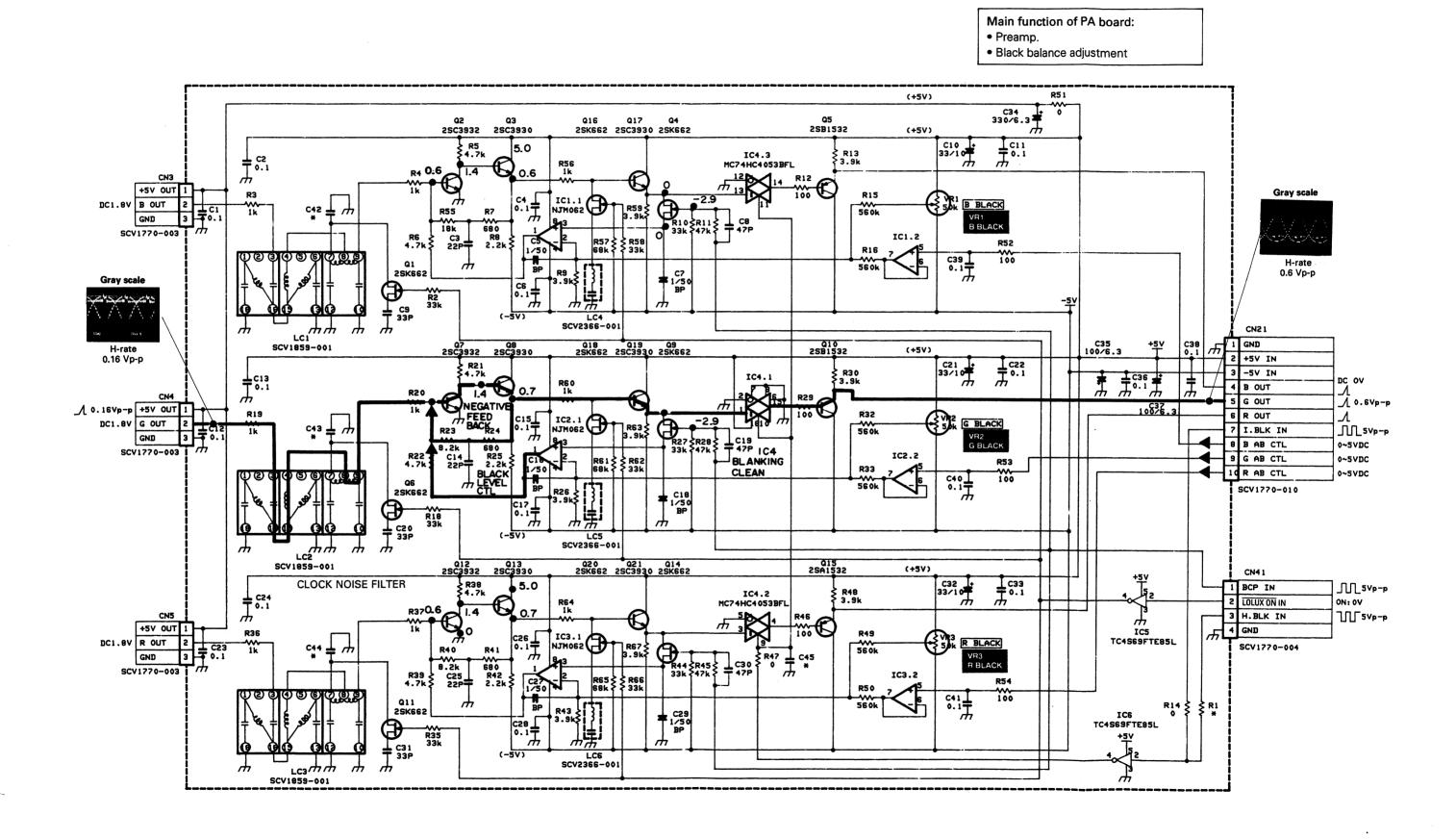
Main function of IS board:

- CCD drive
- Correlative double sampling



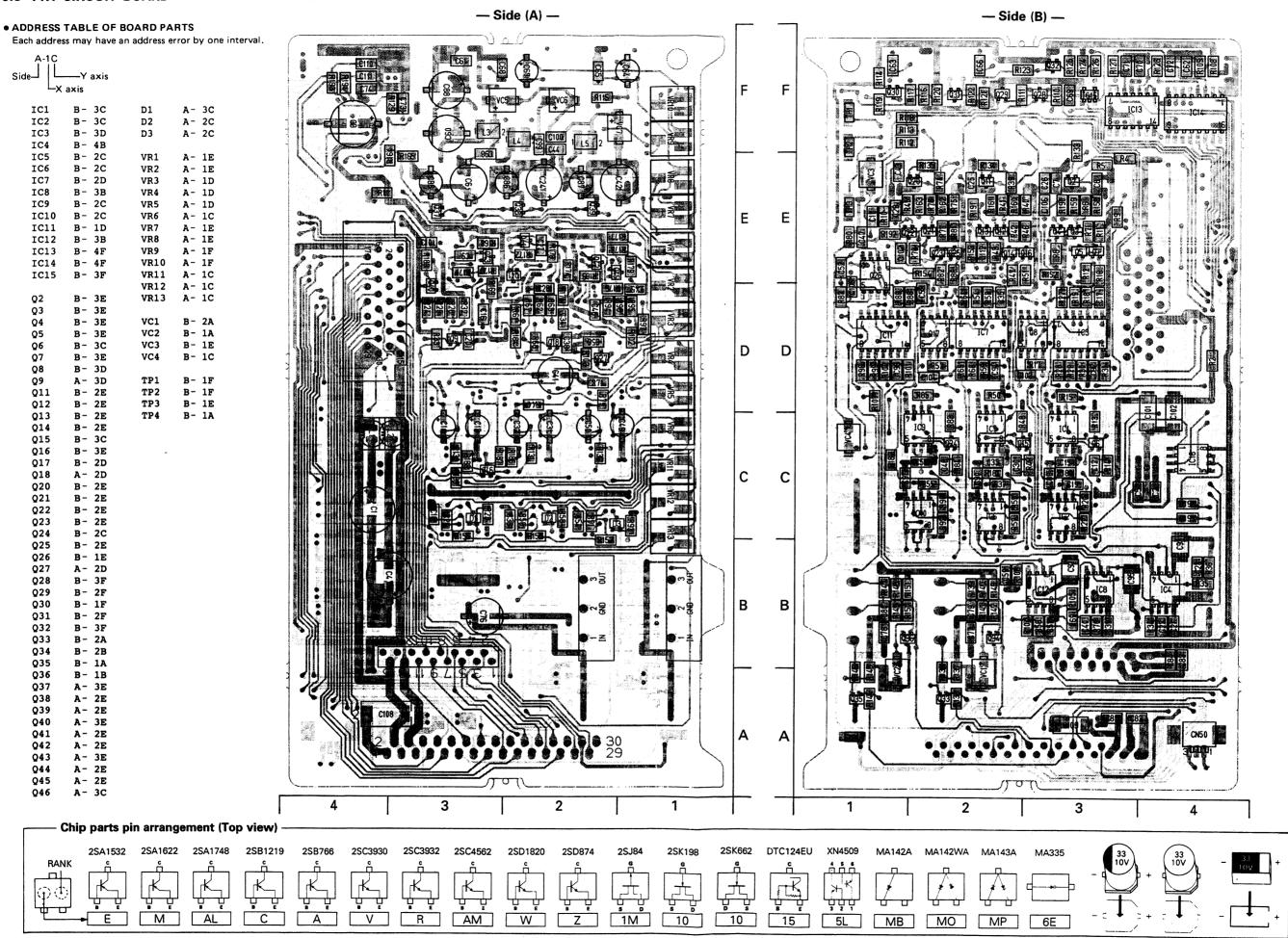


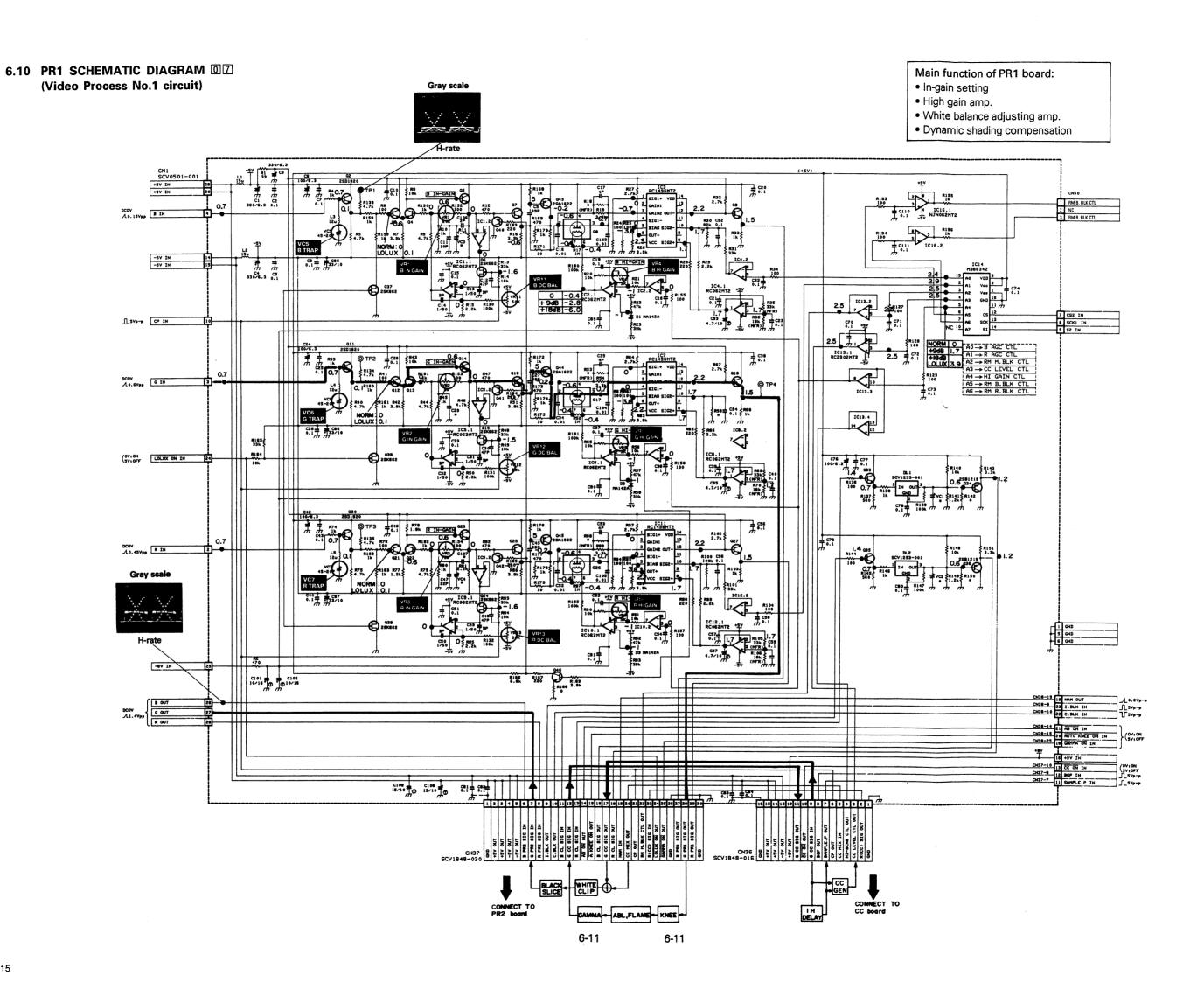
### 6.8 PA SCHEMATIC DIAGRAM 04 (Pre Amplifier board)



PA PR1

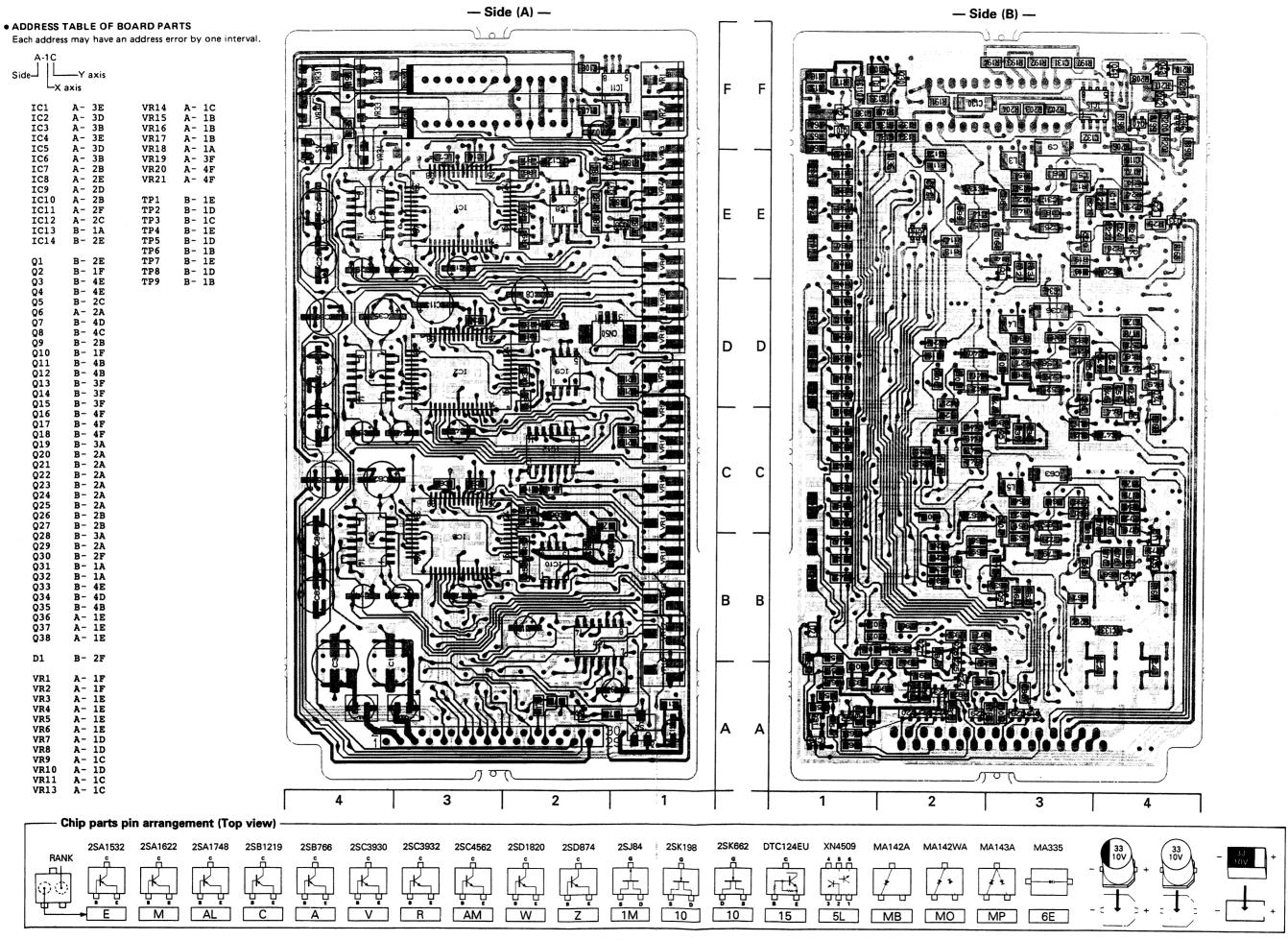
#### 6.9 PR1 CIRCUIT BOARD

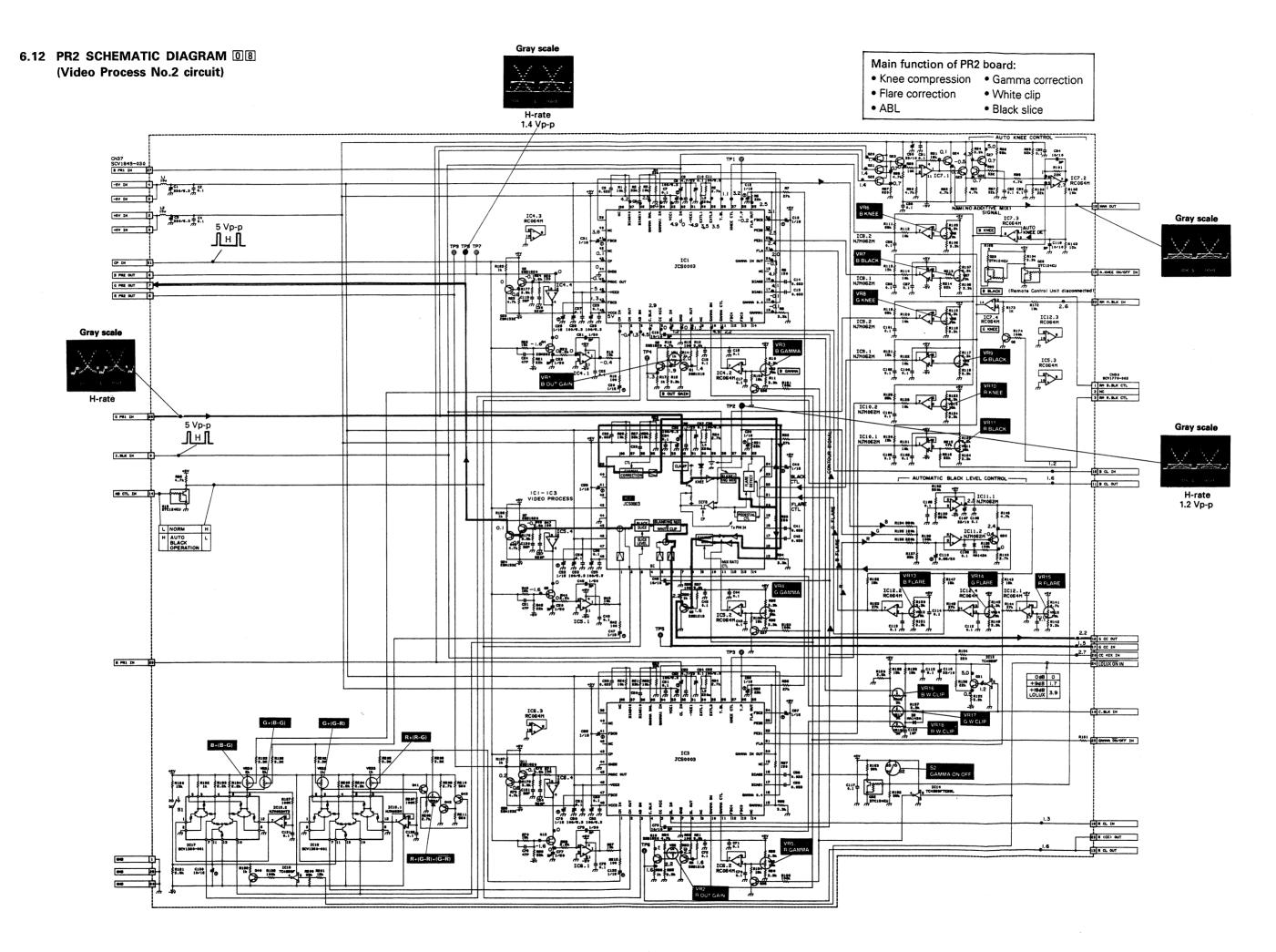




PR1 PR2

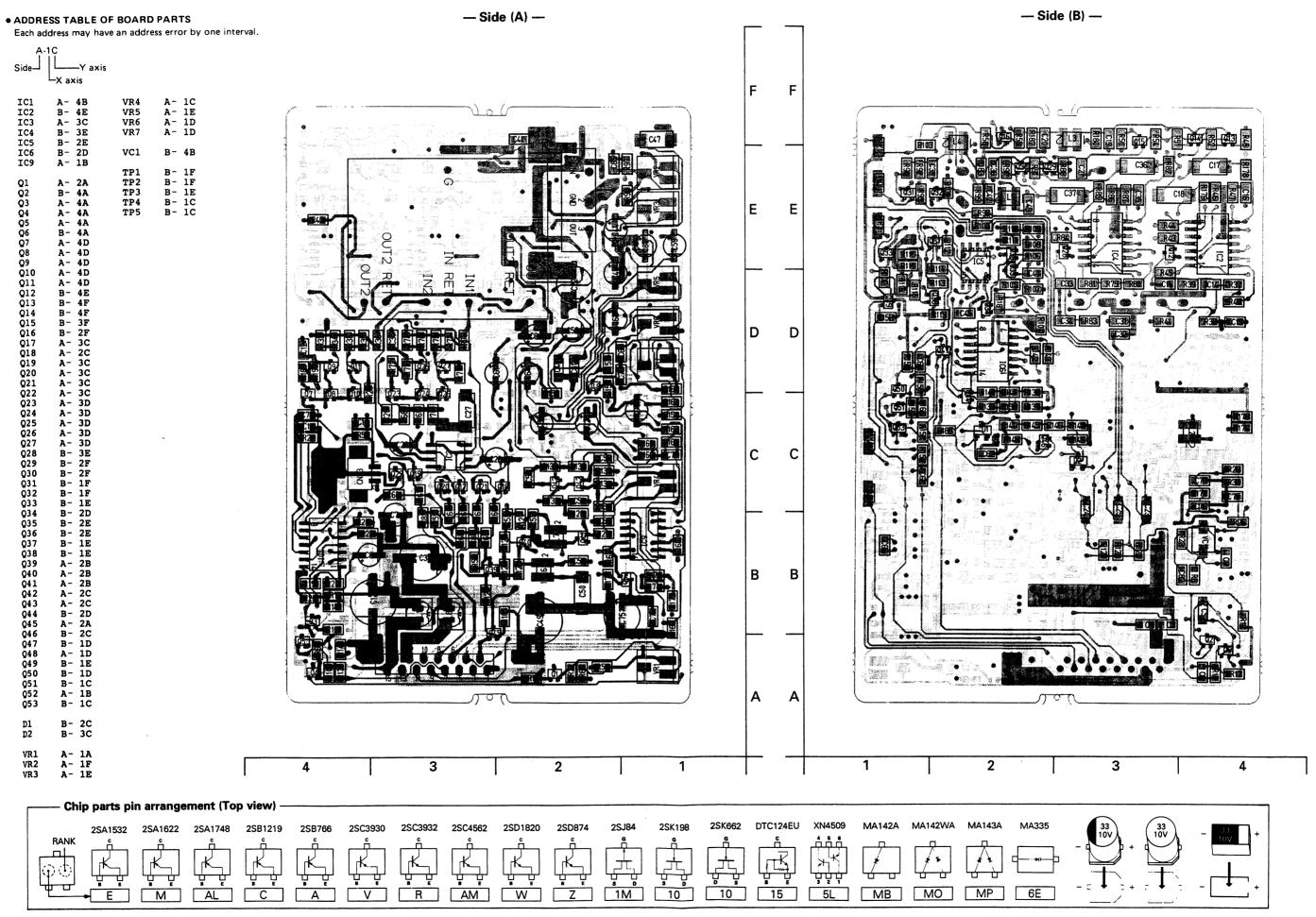
#### 6.11 PR2 CIRCUIT BOARD



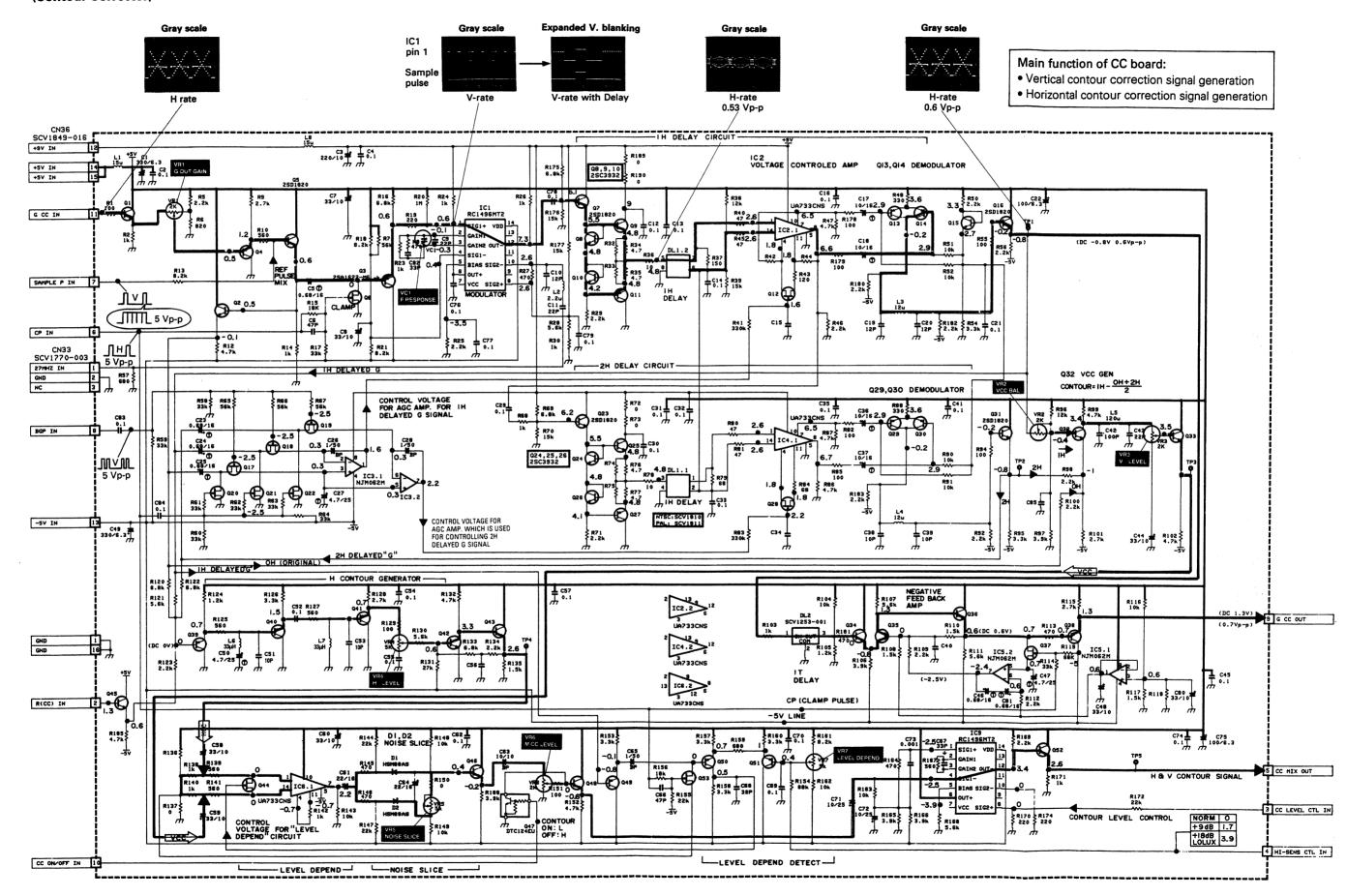


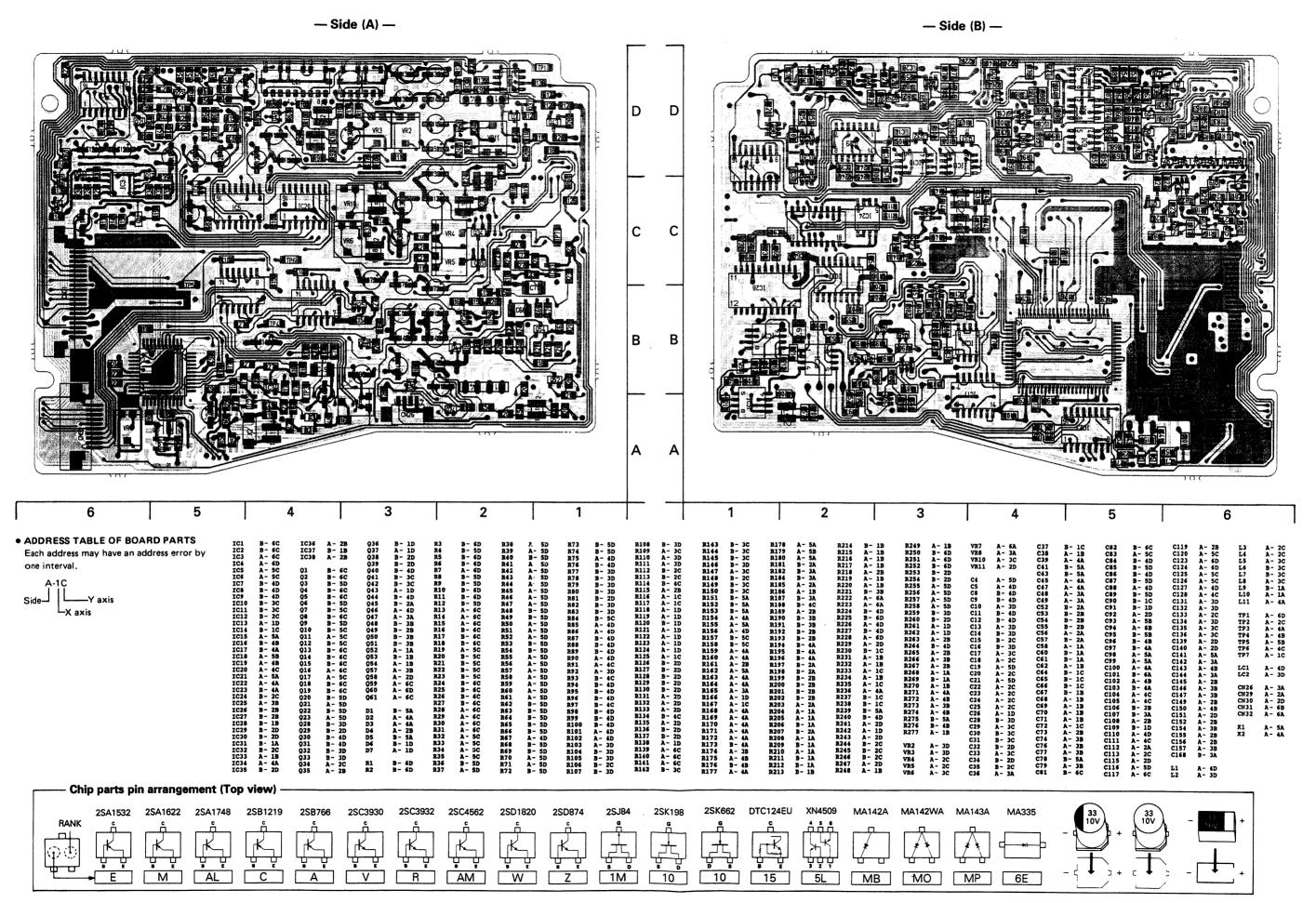
PR2 CC

#### 6.13 CC CIRCUIT BOARD



## 6.14 CC SCHEMATIC DIAGRAM 09 (Contour Corrector)



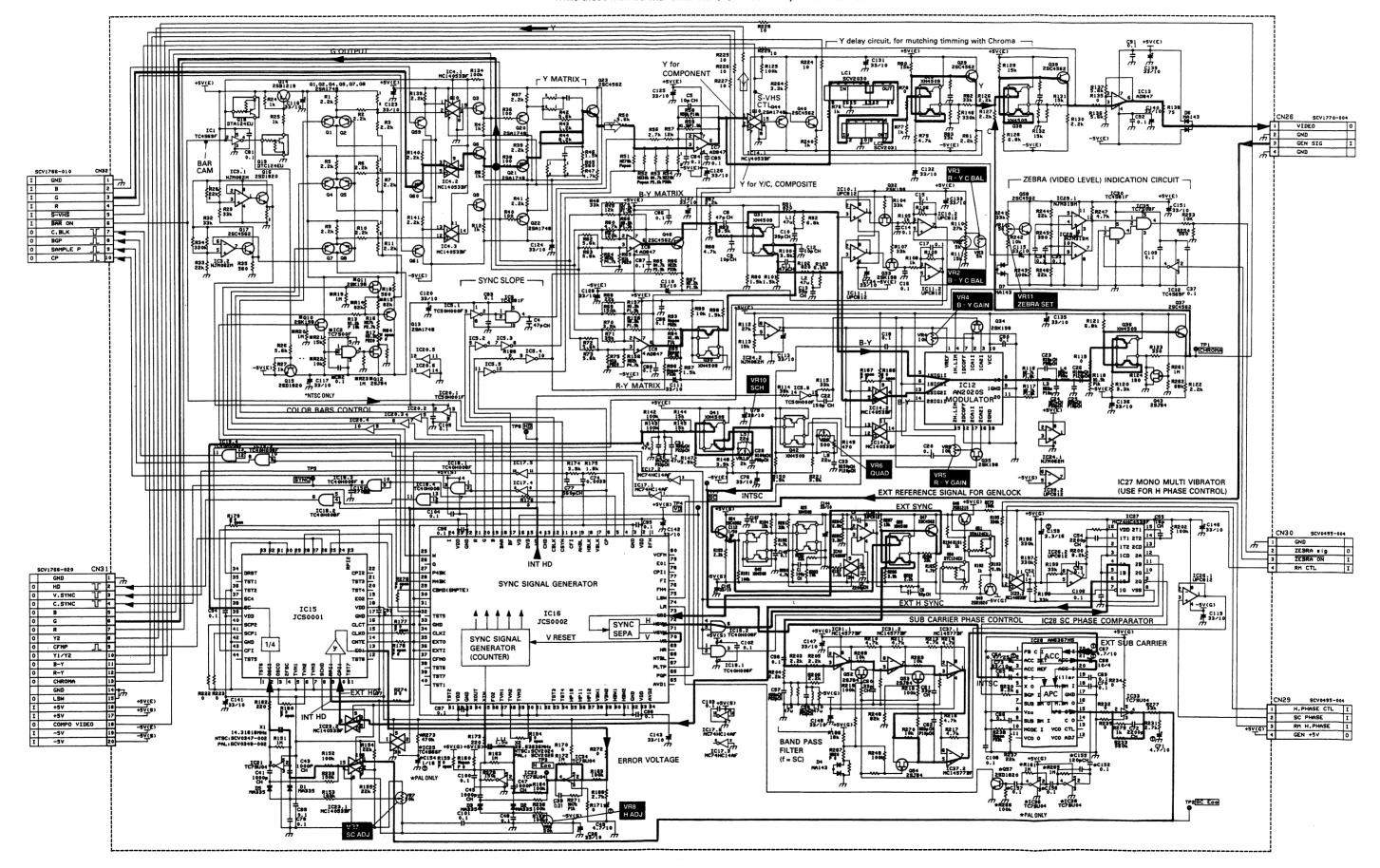


### 6.16 SE SCHEMATIC DIAGRAM 10 (Sync Signal Generator and Color Encoder)

- Notes: In the diagram, resistors and capacitors whose resistance or capacitance is written following a letter N or P are used in the NTSC model (indicated by N) and the PAL model (indicated by P) respectively.
  - In the diagram, parts marked with asterisk (\*) are used only in the NTSC model, while those marked with black star (\*) are used only in the PAL model.

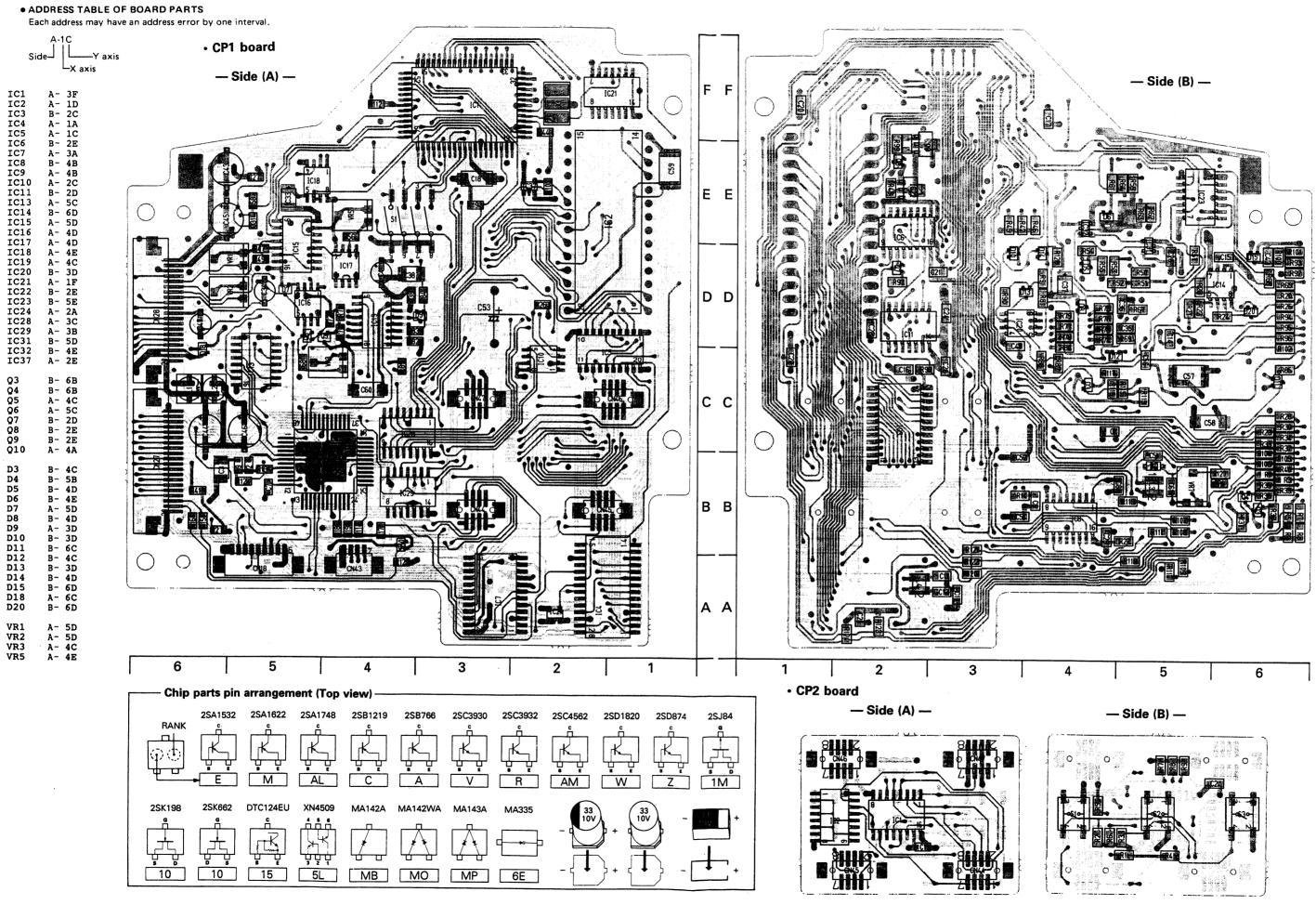
Main function of SE board:

- Sync. signal generation Color encoding
- Genlock circuit
   Co
- Color bars signal generation

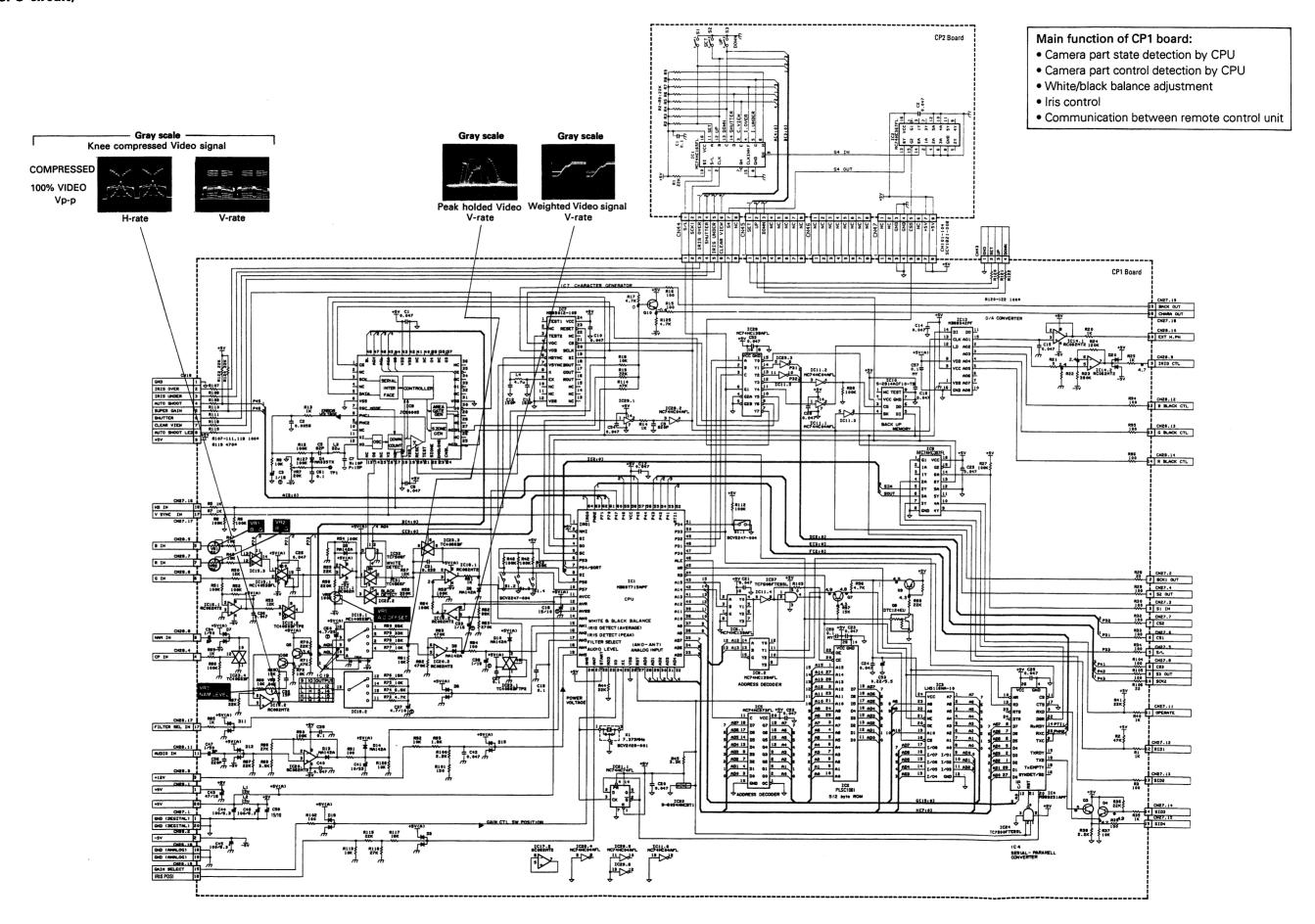


SE CP1

#### 6.17 CP1/CP2 CIRCUIT BOARDS



### 6.18 CP1/CP2 SCHEMATIC DIAGRAMS 11 1/12 (CPU circuit)



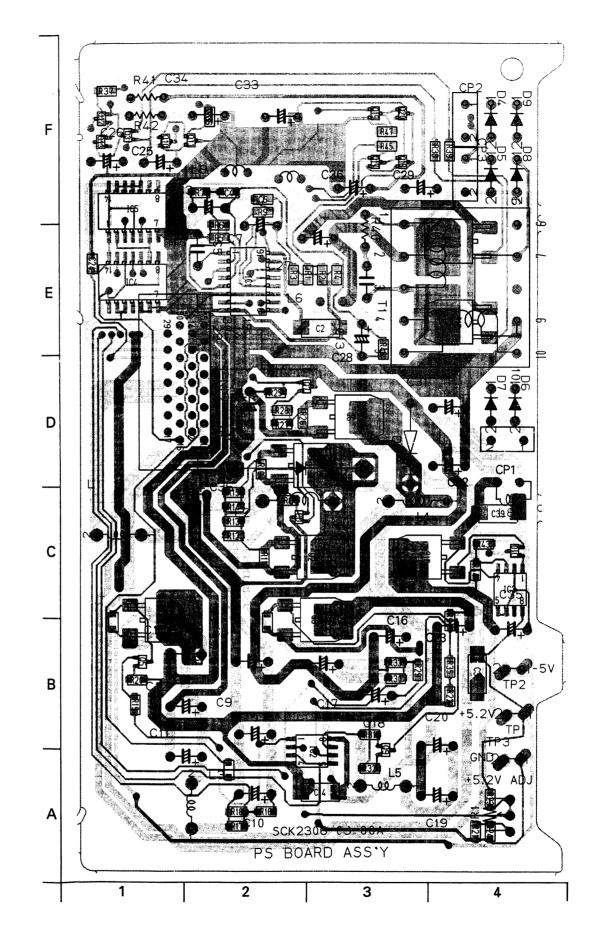
#### 6.19 PS CIRCUIT BOARD

#### • ADDRESS TABLE OF BOARD PARTS

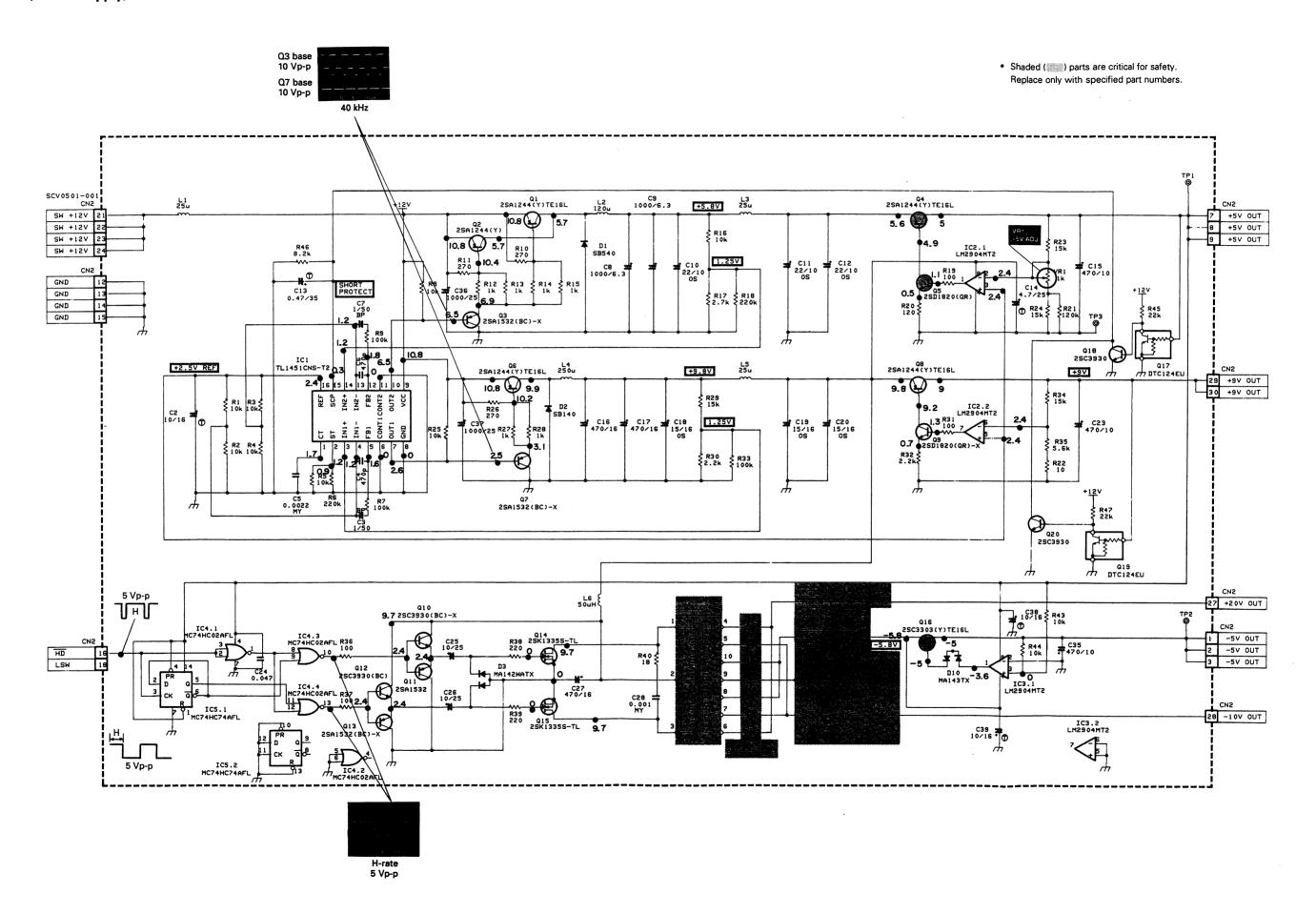
Each address may have an address error by one interval.

TP1 A- 4B

CP1 CP2 PS



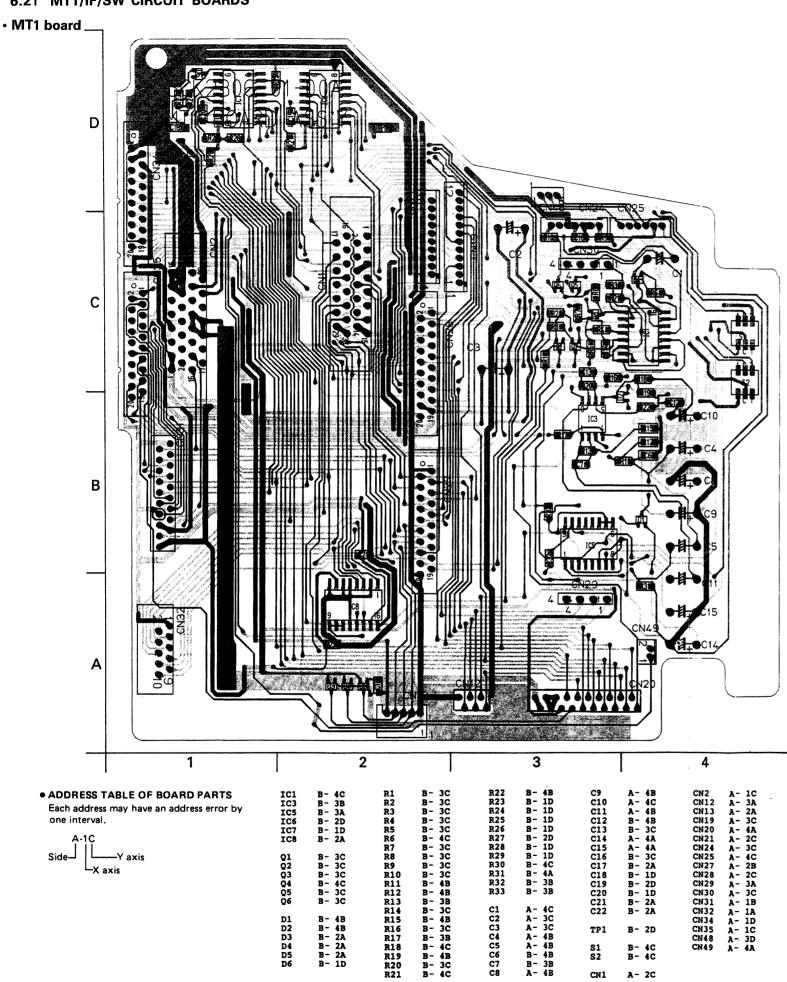
# 6.20 PS SCHEMATIC DIAGRAM 13 (Power Supply)



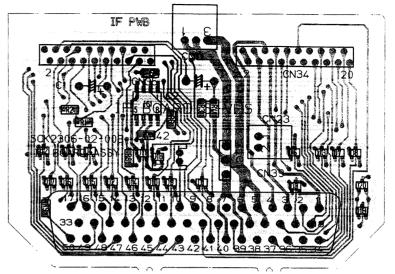
6-22

6-22

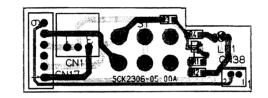
#### 6.21 MT1/IF/SW CIRCUIT BOARDS



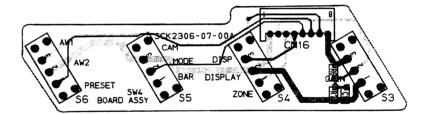
#### IF board



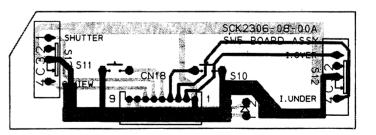
#### · SW2 board



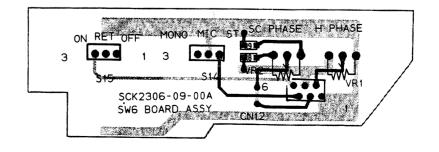
#### • SW4 board



#### • SW5 board



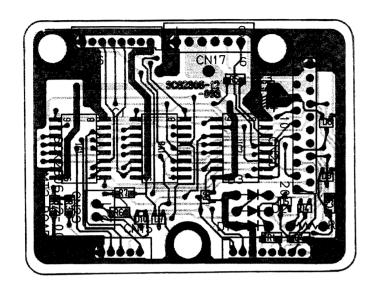
#### SW6 board

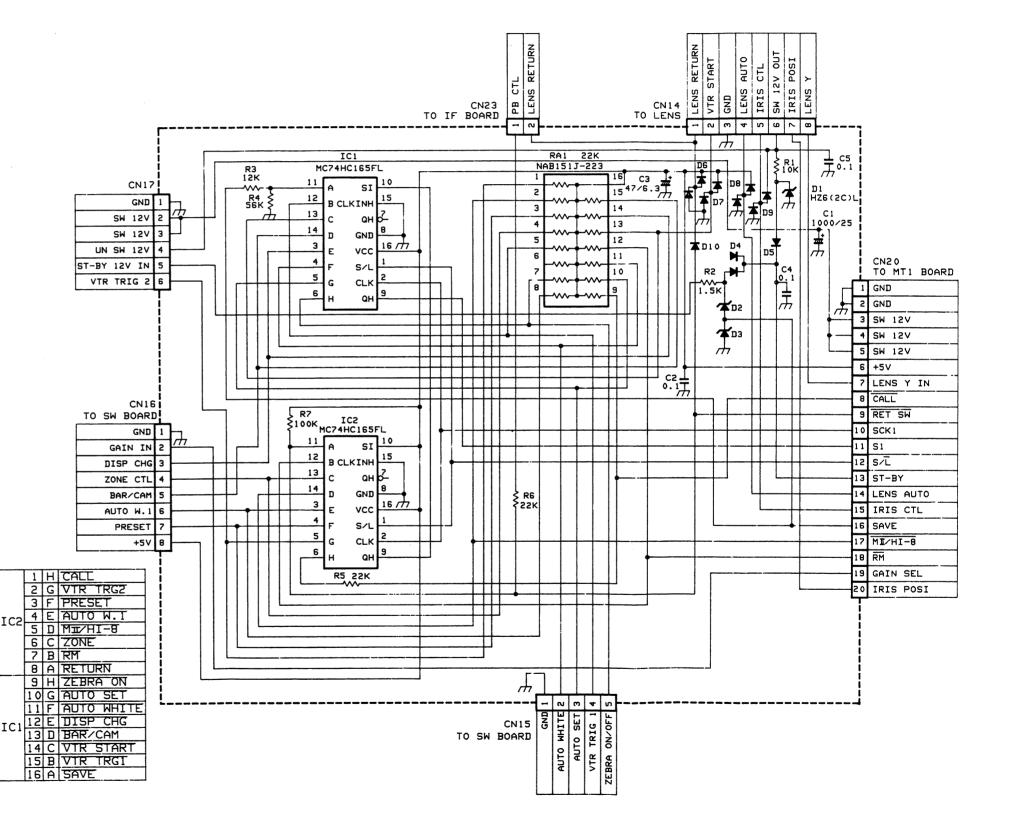


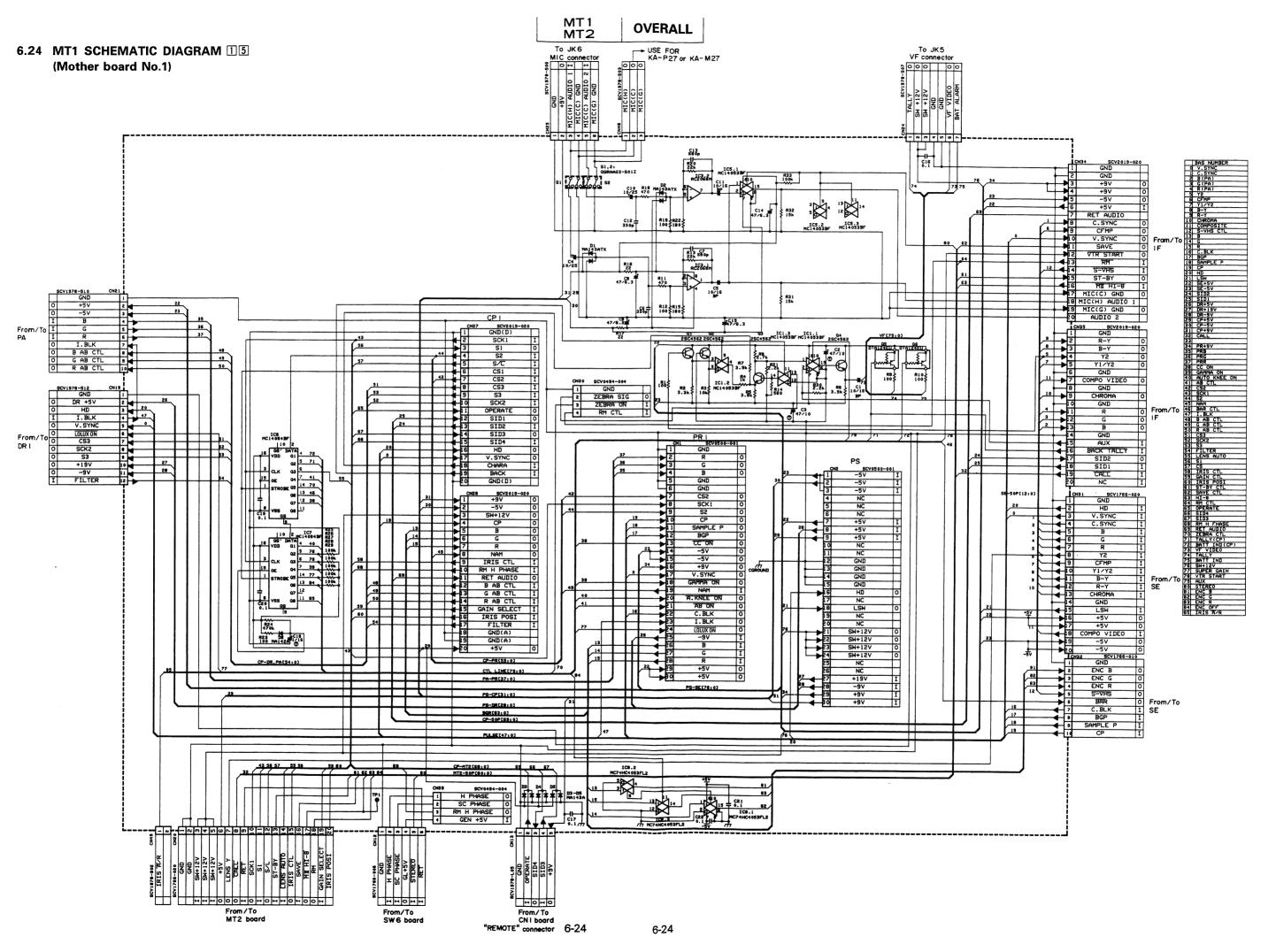
# 6.23 MT2 SCHEMATIC DIAGRAM 116 (Mother board No.2)

Main function of MT2 board:

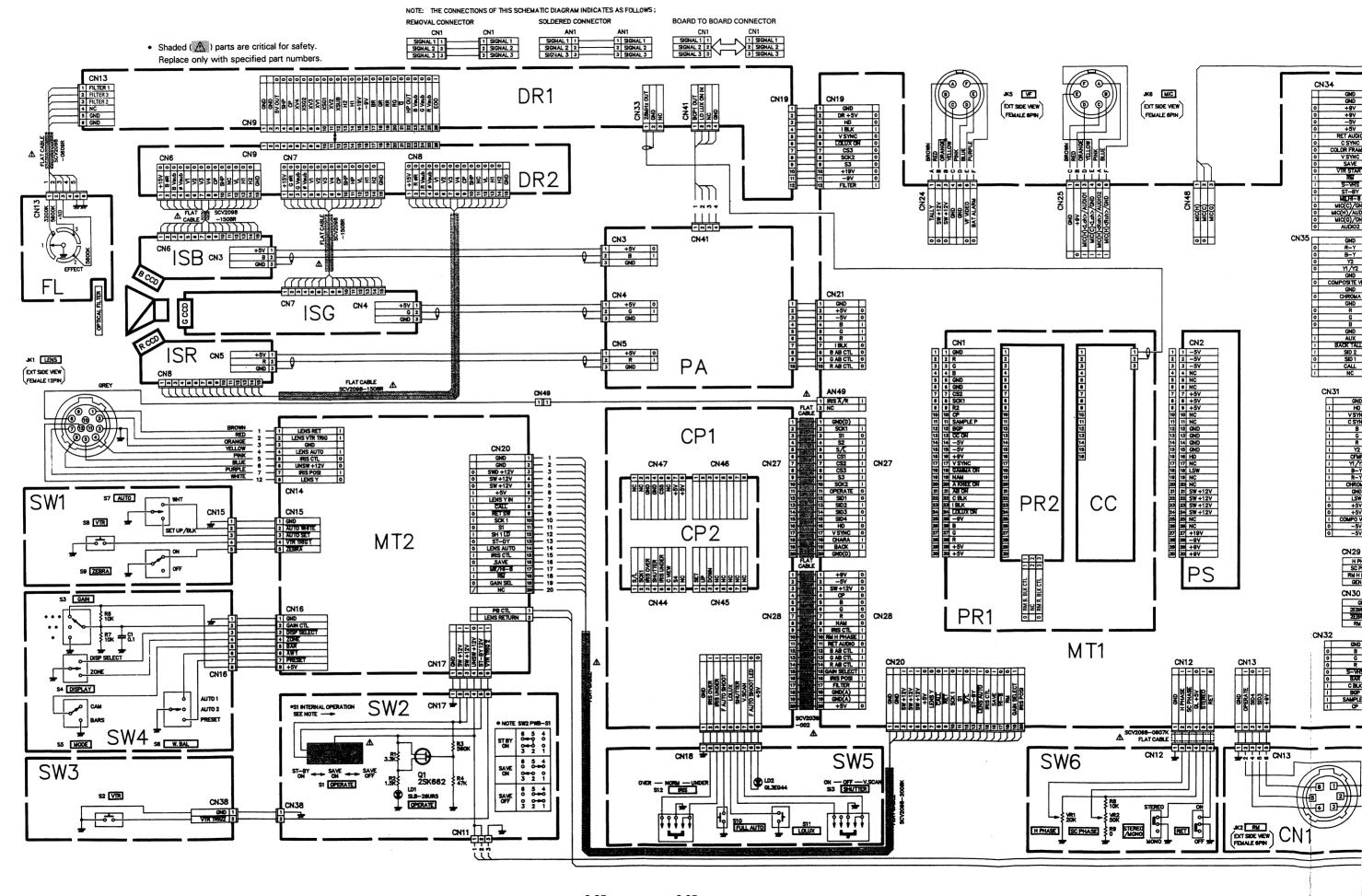
- Switch state detection
- Parallel-serial conversion

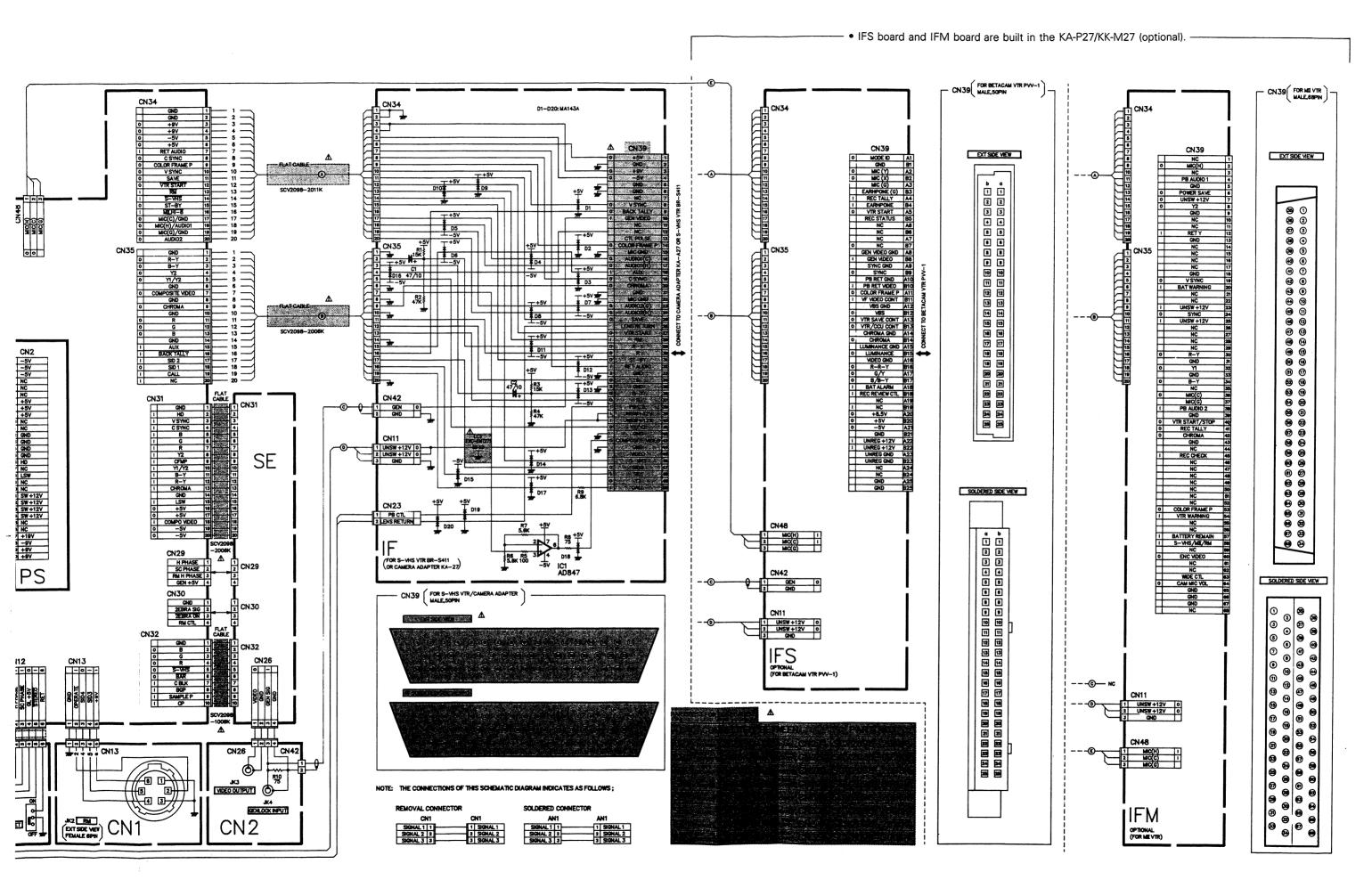






## 6.25 OVERALL WIRING DIAGRAM (Including schematic diagrams of SW1 to SW6, CN1, CN2 AND IFboards)

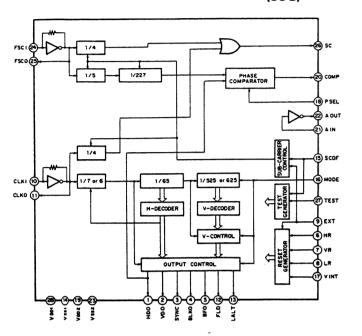


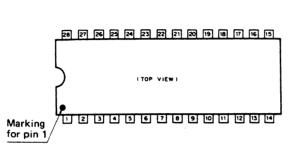


## 6.26 SCHEMATIC DIAGRAM of ICs

**Note:** Here are only the ICs that are exclusively used for the KY-19 appearing in this section. For detail of other ICs used in the KY-19 and the KY-27 in common, refer to the service manuals (No. 60061 and No. 60072) for the KY-27.

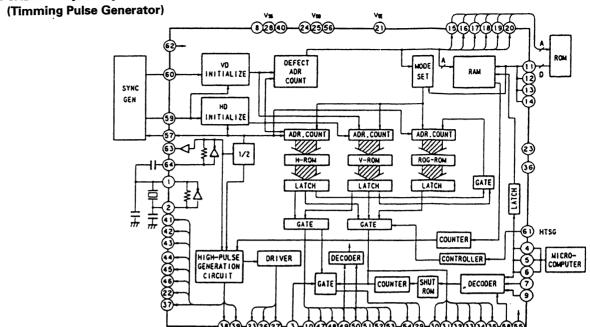
#### ■ CXD1030M [SONY] (SSG)





Pin NO	NAME	1/0	FUNCTION
1	HDO	0	Horizontal Drive Pulse
1 2	VDO	ŏ	Vertical Drive Pulse
2	SYNC	ŏ	Composite Drive Pulse
3	BLKO	Ö	Composite Blanking
=	BFO	ŏ	Burst Flag Pulse
1 6	HR	ĭ	Horizontal Reset Pulse Input
7	VR	i	Vertical Reset Pulse Input
1 2 3 4 5 6 7 8 9	LR	l i	Line Alturnate Pulse Input
١	EXT	l i	mode Select
10	CLKI	li	Clock Input (NTSC: 14.31818MHz, PAL: 14.1875MHz)
lii	CLKO	Ô	Clock Output
12	FLD	ŏ	Field Pulse
13	LALT	١ŏ	Line Alturnate Pulse
14	VSSI	_	GND
15	SCOF	I	Subcarrier Output Control (L:OFF)
16	MODE	Ī	TV Mode Select (L:NTSC/H:PAL)
17	VINT	l	Intiarize Input
18	PSEL	I	Phase Comparetor Polarity Select
19	VDD2	_	+5V
20	COMP	0	Phase Comparator Output
21	AIN	I	Invertor Input
22	AOUT	0	Invertor Output
23	VSS2	-	GND(Invertor)
24	FSCI	I	4fsc Clock Input
25	FSC0	0	4fsc Clock Output
26	SC	0	Subcarrier Output
27	TEST	I	Test Input
28	VDD1	-	+5 <b>v</b>

## ■ CXD1265R [SONY]



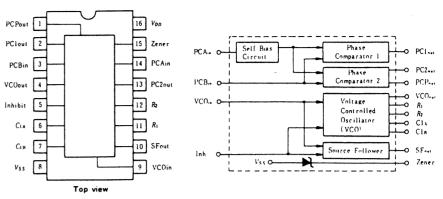
#### Pin functions

Pin No.	Symbol	I/O	Description		
1	OSCO	0	Inverter output for oscillation		
2	OSCI	I	nverter input for oscillation		
3	EF	1	Defect compensation data input switching (with pull-up resistor)  H: Use of external ROM, L: Serial input from microcomputer		
4	ED0	1	Shutter speed setting. Strobe input in serial mode (with pull-up resistor)		
5	ED1	1	Shutter speed setting. Clock input in serial mode (with pull-up resistor)		
6	ED2		Shutter speed setting. Data input in serial mode (with pull-up resistor)		
7	SMD1	1	Shutter mode setting (with pull-up resistor)		
8	Vss	_	GND		
9	SMD2	1	Shutter mode setting (with pull-up resistor)		
10	XVCT	0	Power control for external ROM		
11	D1	ı	Data input when external ROM is used (with pull-down resistor) When external ROM is not used; L: No defect compensation, H: Defect compensation		
12	D2	1	Data input when external ROM is used (with pull-down resistor) When external ROM is not used; L: Color, H: B/W		
13	D3	1	Data input when external ROM is used (with pull-down resistor) When external ROM is not used, fixed to Low.		
14	D4	1	Data input when external ROM is used (with pull-down resistor) When external ROM is not used; L: NTSC, H: PAL		
15	A5	0	Address output for external ROM		
16	A4	0	Address output for external ROM		
17	A3	0	Address output for external ROM		
18	A0	0	Address output for external ROM		
19	A1	0	Address output for external ROM		
20	A2	0	Address output for external ROM		
21	VEE	_	GND		
22	RG	0	Reset gate pulse output		
23	LH1	_	Clock output for the last CCD horizontal register		
24	VDD		Power supply		

Pin No.	Symb
25	VDD
26	H1
27	H2
28	Vss
29	XSUB
30	XV2
31	XV1
32	XSG1
33	XV3
34	XSG2
35	XV4
36	TEST2
37	CLD
38	XSHP
39	XSHD
40	Vss
41	XSP1
42	XSP2
43	XSH1/
	SHP
44	XSH2 SHD
45	XDL1
46	XDL2
47	BFG
48	CLP1
49	CLP2
50	CLP3
51	CLP4
52	PBLK
53	ID
54	WEN
55	GM
56	VDD
57	CL
58	PS
59	HD
60	VD
61	HTSG
62	TEST
63	XCK
64	CK

Pin No.	Symbol	1/0	Description		
25	VDD	_	Power supply (for H1, H2)		
26	H1	0	CCD horizontal register drive clock output		
27	H2	0	CCD horizontal register drive clock output		
28	Vss	_	GND (for H1, H2)		
29	XSUB	0	CCD charge draining pulse output		
30	XV2	0	CCD vertical register drive clock output		
31	XV1	0	CCD vertical register drive clock output		
32	XSG1	0	CCD sensor charge readout pulse output		
33	XV3	0	CCD vertical register drive clock output		
34	XSG2	0	CCD sensor charge readout pulse output		
35	XV4	0	CCD vertical register drive clock output		
36	TEST2	١	Test input. Usually Low.		
37	CLD	0	4 fsc clock output		
38	XSHP	0	Precharge level sample holding pulse		
39	XSHD	0	Data sample holding pulse		
40	Vss	_	GND		
41	XSP1	0	Color separation sample holding pulse. No operation in B/W mopde.		
42	XSP2	0	Color separation sample holding pulse. No operation in B/W mopde.		
43	XSH1/ SHP	0	Switchover sample holding pulse/ Precharge level sample holding pulse (in B/W mode)		
44	XSH2 SHD	0	Switchover sample holding pulse/ Data sample holding pulse (in B/W mode)		
45	XDL1	0	Delay line clock output. No operation in B/W mode.		
46	XDL2	0	Delay line clock output. No operation in B/W mode.		
47	BFG	0	Pulse output for encoder, chroma modulator When GM is H, defect position indication pulse output. No operation in B/W mode.		
48	CLP1	0	Clamping pulse output		
49	CLP2	10	Clampling pulse output. When GM is H, standby mode switching input.		
50	CLP3	10	Clampling pulse output. When GM is H, standby mode switching input.		
51	CLP4	0	Clampling pulse output		
52	PBLK	0	Blanking cleaning pulse output		
53	ID	0	Line identification output. No operation in B/W mode.		
54	WEN	0	Write enable output (only at slow shutter speed)		
55	GM	1	L : Analog signal processing, H : Digital signal processing (with pull-down resistor)		
56	VDD	_	Power supply		
57	CL	0	4 fsc clock output		
58	PS	1	Electronic shutter speed input way switching (with pull-up resistor)  L : Serial input, H : Parallel input		
59	HD	1	Horizontal sync signal input		
60	VD	1	Vertical sync signal input (Low period is 9H in NTSC/EIA or 7.5H in PAL/CCIR.)		
61	HTSG	I	XSG1, XSG2 control input (with pull-up resistor) L: No XSG1, XSG2 output, H: XSG1, XSG2 output		
62	TEST	ı	Test input. Usually Low (with pull-down resistor)		
63	XCK	0	8 fsc clock output		
64	CK	I	8 fsc clock input		

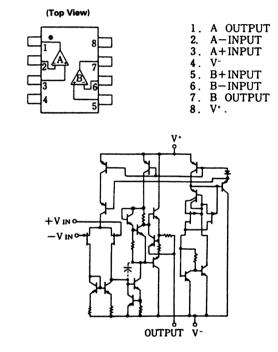
■ MC14046BF [MOTOROLA] (Phase Comparator)



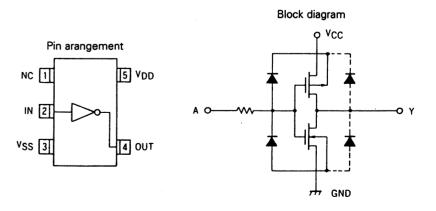
#### ■ MN3110SA [MATSUSHITA] (V-CCD Driver)

# SUB OUTPUT 1 VL 2 WHA V2 OUTPUT 3 WI 13 (4) WI 13 (4) WI 15 (7) V3 OUTPUT V1 OUTPUT 3 W1 WITH CH 1 PULSE DRIVER V2 OUTPUT (7) V3 OUTPUT V3 OUTPUT LEVEL CONVERTOR V1 INPUT (7) LEVEL CONVERTOR V2 INPUT (9) LEVEL CONVERTOR V4 INPUT SUB INPUT (9) LEVEL CONVERTOR I N C.

#### ■ JM062M [JRC] (Op. Amplifier)



# ■ TC7SU04F [TOSHIBA] (Invertor)



# SECTION 7 ELECTRICAL PARTS LIST

#### SAFETY PRECAUTION:

Parts identified by the  $\triangle$  symbol are critical for safety. Replace only with specified parts numbers. For maximum reliability and performance, all other replacement parts should be identical to those specified.

#### NOTE:

- Parts not denoted by parts numbers are not supplied by JVC.
- Abbreviations in this list are as follows:

#### **RESISTORS**

In the "Description" column:

All resistance values are in ohms ( $\Omega$ ). K expresses kilo-ohm (1 000 ohms,  $k\Omega$ ).

M expresses mega-ohm (10 $^6$  ohms, M $\Omega$ ).

In the "Parts Name" column:

COMP. RESISTOR : Composition Resistor
U.F. RESISTOR : Non-inflammable Resistor
O.M.F. RESISTOR : Oxide Metalized Film Resistor

FUSI. RESISTOR : Fusible Resistor
M.P. RESISTOR : Metal Plate Resistor
M.G. RESISTOR : Metal Graze Resistor

M.F. RESISTOR : Metal Film Resistor W.W. RESISTOR : Wire Wound Resistor

**CAPACITORS** 

In the "Description" column:

All capacitance values are in microfarad ( $\mu F$ ) unless otherwise indicated.

P expresses picofarad (10<sup>-12</sup> farad, pF).

In the "Parts Name" column:

TRIM. CAPACITOR: Trimmer Capacitor
CER. CAPACITOR: Ceramic Capacitor
E. CAPACITOR: Electrolytic Capacitor
TAN. CAPACITOR: Tantalum Capacitor
MPP CAPACITOR: Metalized Polypropylene

Capacitor

O.F. CAPACITOR : Oil Film Capacitor

MPF CAPACITOR : Metalized Polyfilm Capacitor

F.M. CAPACITOR : Film Mica Capacitor
P.P. CAPACITOR : Polypropylene Capacitor
P.S. CAPACITOR : Polystyrene Capacitor

Note: In the "Description" column of the parts list, (U) means the parts for the U version while
 (E) is for the E Version.

Symbol No.	Part No.	Part Name	Description		
IC1	SCV1585-064	I.C.(M)	JVC	(U)	for U version
	SCV1585-067	1.C.(M)	JVC	(E)  -	for E version

#### NOTE

This section makes mention of the parts of only the following P.C. board assemblies that are different from those of the KY-27.

For the parts lists of P.C. board assemblies not appearing in this section, refer to the service manual for the KY-27 (Manual No. 60061 and No. 60072).

#### P.C. board assemblies appearing in this section

Section	Boa	rd nam	e	Page
7.1	DR1	0 5		7−1
7.2	DR2	0 6		7−3
7.3	ISB	0 1		7–4
7.4	ISG	0 2		7–4
7.5	ISR	0 3		7–5
7.6	PA	0 4		7−5
7.7	PR1	0 7		7–7
7.8	PR2*	0 8		7−10
7.9	CP1	<b>1</b>		7–13

<sup>\*</sup>Nevertheless the same PR2 board is incorporated in the KY-19 and the KY-27 in common, the reason why the PR2 board assembly list appears in this section is as follows.

Late products of the KY-27 have drastic changes in the matrix circuit, and the PR2 board assembly parts of them and the KY-19 are considerably different from the parts list appearing in the KY-27's service manuals issued previously.

## 7.1 DR1 board assembly list 05

SCK2367-01-N0A SCK2367-01-P0A

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Symbol No.	Part No.	Part Name	Descr	iption	Symbol No.	Part No.	
IC1	MC74HC14AF	I.C.(M)	MOTOROLA		VR1	NVP1416-102	TRIM
IC2	MC74HC74AF	I.C(DIGI-MOS)	MOTOROLA	1	VR2	NVP1416-102	TRIM
IC3	TC7SU04F	I.C(DIGI-MOS)	TOSHIBA	ľ	VR3	NVP1416-501	V.RE
IC4	MC74HC02AF	I.C(DIGI-MOS)	MOTOROLA		VR3	NVP1416-501	1
IC5	MC74HC08AF	I.C.(M)	MOTOROLA		VR4	I .	V.RE
IC6	TC7SU04F	I.C(DIGI-MOS)	TOSHIBA		,	NVP1416-503	TRIM
IC7	TC7SU04F	1	1		VR5	NVP1416-503	TRIM
IC8		I.C(DIGI-MOS)	TOSHIBA		VR6	NVP1416-503	TRIM
	CXD1265R	M IC(DRY)	SONY		VR7	NVP1416-203	TRIM
IC9	MC14046BF	I.C(DIGI-MOS)	MOTOROLA		VR8	NVP1416-203	TRIM
IC10	CXD1030M	I.C.(M)	SONY		VR9	NVP1416-203	TRIM
D1	MA335	SI DIODE	MATSUSHITA		C1	NCB21EK-473	CER.
D2	MA335	SI DIODE	MATSUSHITA		C2	NEA11AM-336	E.CA
D3	MA142WK	DIODE	MATSUSHITA		C3	NCT03CH-100	CER.
				ŀ	C4	NCB21EK-473	CER.
		/			C5	NCB21EK-473	CER.
R1	NRSA02J-104	M.G.RESISTOR	100K	1/10W	C6	NCT03CH-100	1
R2	NRSA02J-472	M.G.RESISTOR	4.7K	I .	C7	NCT03CH-100	CER.
R3	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	1		CER.
R4			1	1/10W	C8	NCT03CH-100	CER.
1	NRSA02J-561	M.G.RESISTOR	560	1/10W	C9	NCB21EK-473	CER.
R5	NRSA02J-561	M.G.RESISTOR	560	1/10W	C10	NCT03CH-100	CER.
R6	NRSA02J-151	M.G.RESISTOR	150	1/10W	· I		
R7	NRSA02J-151	M.G.RESISTOR	150	1/10W	C11	NCB21EK-473	CER.
R8	NRSA02J-151	M.G.RESISTOR	150	1/10W	C12	NCT03CH-100	CER.
R9	NRSA02J-223	M.G.RESISTOR	22K	1/10W	C13	NEA11AM-336	E.CAI
R10	NRSA02J-682	M.G.RESISTOR	6.8K	1/10W	C14	NCB21EK-473	CER.
1					C15	NEA11AM-336	E.CAI
R11	NRSA02J-563	M.G.RESISTOR	56K	1/10W	C16	NCB21EK-473	CER.
R13	NRSA02J-471	M.G.RESISTOR	470	1/10W	C17	NEA11AM-336	E.CAI
R14	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	C18	NCB21EK-473	CER.
R15	NRSA02J-100	M.G.RESISTOR	10	1/10W	C19	NCT03CH-330	CER.
R16	NRSA02J-ORO	M.G.RESISTOR	0	1/10W	C20	NCT03CH-101	CER.
R17	NRSA02J-105	M.G.RESISTOR	1.0M	1/10W			
R18	NRSA02J-271	M.G.RESISTOR	270	1/10W	C21	NCT03CH-101	CER.C
R19	NRSA02J-151	M.G.RESISTOR	150	1/10W	C22	NCB21HK-103	CER.C
R20	NRSA02J-104	M.G.RESISTOR	100K	1/10W	C23	NCB21EK-473	CER.C
R21	NRSA02J-104	M.G.RESISTOR	100K	1/10W	C24	NCB21EK-473	CER.C
	10101020 101	W. G. M. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	1001	171000	C25	NCB21EK 473	CER.C
R22	NRSA02J-104	M.G.RESISTOR	100K	1/10W	C26	NEF11CM-105	i i
	NRSA02J-562	M.G.RESISTOR	5.6K				TAN.
R24	NRSA02J-102			1/10W	C27	NCB21EK-473	CER.C
R25		M.G.RESISTOR	1.0K	1/10W	C28	NCB21HK-102	CER.C
	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	C29	NCB21EK-473	CER.C
	NRSA02J-ORO	M.G.RESISTOR	0	1/10W	C30	NCB21EK-473	CER.C
	NRSA02J-OR0	M.G.RESISTOR	0	1/10W	1		
	NRSA02J-ORO	M.G.RESISTOR	0	1/10W	C31	NCT03CH-681	CER.C
	NRSA02J-ORO	M.G.RESISTOR	0	1/10W(E)	C32	NCB21EK-473	CER.C
R32	NRSA02J-103	M.G.RESISTOR	10K	1/10W	C33	NCB21EK-473	CER.C
R33	NRSA02J-103	M.G.RESISTOR	10K	1/10W	C41	NEA11EM-106	E.CAF
ļ					C42	NCB21EK-473	CER.C
R34	NRSA02J-ORO	M.G.RESISTOR	0	1/10W(U)	C43	NCT03CH-101	CER.C
R35	NRSA02J-ORO	M.G.RESISTOR	0	1/10W(E)	i l		
R36	NRSA02J-563	M.G.RESISTOR	56K	1/10W	1		
R37	NRSA02J-151	M.G.RESISTOR	150	1/10W	L1	SSV1330-150	COIL
	NRSA02J-151	M.G.RESISTOR	150	1/10W	L2	SSV1330-150	COIL
	NRSA02J-103	M.G.RESISTOR	10K	· · · · · · · · · · · · · · · · · · ·	L3	SSV1330~150	
	NRSA02J-103	M.G.RESISTOR	10K	1/10W	"	35 V 1330~100	COIL
1	NRSA02J-103 NRSA02J-103	1		1/10W			
		M.G.RESISTOR	10K	1/10W		001/1004 000	ļ
	NRSA02J-472 NRSA02J-105	M.G.RESISTOR M.G.RESISTOR	4.7K 1.0M	1/10W 1/10W	LC1	SCV1804-222	EMI F
R44	NRSA02J-105	M.G.RESISTOR	1.0M	1/10W	X1	CE41081-A0A	CRYS
R45	NRSA02J-471	M.G.RESISTOR	470	1/10W	X1	CE41212-001	CRYS

Symbol	Part No.	Part Name	Descri	ription
No.		Turt Harrie	Desci	- Iption
VR1	NVP1416-102	TRIM.RESISTOR	1K	SHP
VR2	NVP1416-102	TRIM.RESISTOR	1K	HP
VR3	NVP1416-501	V.RESISTOR	500	CP (U)
VR3 VR4	NVP1416-501	V.RESISTOR	500	CP (E)
VR5	NVP1416-503 NVP1416-503	TRIM.RESISTOR	50K	B VRGL
VR6	NVP1416-503	TRIM.RESISTOR TRIM.RESISTOR	50K 50K	G VRGL
VR7	NVP1416-203	TRIM.RESISTOR	20K	R VRGL
VR8	NVP1416-203	TRIM.RESISTOR	20K	B Vsμb G Vsμb
VR9	NVP1416-203	TRIM.RESISTOR	20K	R Vsμb
				11 1040
C1	NCB21EK-473	CER.CAPACITOR	0.047	25∨
C2	NEA11AM-336	E.CAPACITOR	33	10V
C3	NCT03CH-100	CER.CAPACITOR	10P	50V
C4	NCB21EK-473	CER.CAPACITOR	0.047	25V
C5 C6	NCB21EK-473	CER.CAPACITOR	0.047	25V
C6 C7	NCT03CH-100 NCT03CH-100	CER.CAPACITOR	10P	50V
C8	NCT03CH-100	CER.CAPACITOR CER.CAPACITOR	10P	50V
C9	NCB21EK-473	CER.CAPACITOR	10P 0.047	50V
C10	NCT03CH-100	CER.CAPACITOR	10P	25V 50V
C11	NCB21EK-473	CER.CAPACITOR	0.047	25V
C12	NCT03CH-100	CER.CAPACITOR	10P	50V
C13	NEA11AM-336	E.CAPACITOR	33	10V
C14	NCB21EK-473	CER.CAPACITOR	0.047	25V
C15	NEA11AM-336	E.CAPACITOR	33	10V
C16	NCB21EK-473	CER.CAPACITOR	0.047	25V
C17	NEA11AM-336	E.CAPACITOR	33	10V
C18	NCB21EK-473	CER.CAPACITOR	0.047	25V
C19	NCT03CH-330	CER.CAPACITOR	33P	50V (E)
C20	NCT03CH-101	CER.CAPACITOR	100P	50V
C21	NCT03CH-101	CER.CAPACITOR	100P	50V
C22	NCB21HK-103	CER.CAPACITOR	0.010	50V
C23	NCB21EK-473	CER.CAPACITOR	0.047	25∨
C24	NCB21EK-473	CER.CAPACITOR	0.047	25V
C25	NCB21EK-473	CER.CAPACITOR	0.047	25V
C26 C27	NEF11CM-105 NCB21EK-473	TAN.CAPACITOR	1.0	16V
C27	NCB21EK-4/3	CER.CAPACITOR CER.CAPACITOR	0.047	25V
C29	NCB21EK-473	CER.CAPACITOR	1000P	50V
C30	NCB21EK-473	CER.CAPACITOR	0.047	25V 25V
C31	NCT03CH-681	CER.CAPACITOR	680P	50V
C32	NCB21EK-473	CER.CAPACITOR	0.047	25V
C33	NCB21EK-473	CER.CAPACITOR	0.047	25V
C41	NEA11EM-106	E.CAPACITOR	10	25V
C42	NCB21EK-473	CER.CAPACITOR	0.047	25V
C43	NCT03CH-101	CER.CAPACITOR	100P	50V
	00044000 477			
L1	SSV1330-150	COIL	15μH	
L2	SSV1330-150	COIL	15µH	j
L3	SSV1330~150	COIL	15μH	
LC1	SCV1804-222	EMI FILTER		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	054405			
X1	CE41081-A0A	CRYSTAL	28.636MHz	(U)
X1	CE41212-001	CRYSTAL	28.375MHz	(E)
				İ

Symbol No.	Part No.	Part Name	Description
CN9 CN13 CN19 CN33 CN41	SCV1814-026 SSV1321-006 SCV1770-012 SCV1770-003 SCV1770-004	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	26 PIN 6 PIN 12 PIN 3 PIN 4 PIN
TP1	SCV1880-001	TEST POINT	

7.2	DR2	board	assembly	list	0 6
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Symbol No.	Part No.	Part Name	Description
IC1	RC78L15UA	I.C.(MONO-ANA)	RAYTHEON
IC2	MC74HC08AF	I.C.(M)	MOTOROLA
IC3	MN3110SA	I.C.(M)	MATSUSHITA
IC4	MN3110SA	I.C.(M)	MATSUSHITA
IC5	MN3110SA	1.C.(M)	MATSUSHITA
IC6	TC74HCU04AF	IC	TOSHIBA
IC7	TC74HCU04AF	IC	TOSHIBA
IC8	TC74HCU04AF	ıc	TOSHIBA
Q1	2SB1219(QR)	TRANSISTOR	MATSUSHITA
Q2	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q3	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q4	2SD1820(QR)	TRANSISTOR	MATSUSHITA
D1	MA142A	DIODE	MATSUSHITA
D2	MA142A	DIODE	MATSUSHITA
D3	MA142A	DIODE	MATSUSHITA
D4	MA142A	DIODE	MATSUSHITA
R1	LAUDO A COLLEGIA	M.G.RESISTOR	680 1/10W
R2	NRSA02J-681 NRSA02J-223	M.G.RESISTOR	22K 1/10W
R3	NRSA02J-223	M.G.RESISTOR	4.7K 1/10W
R4	NRSA02J-104	M.G.RESISTOR	100K 1/10W
R5	NRSA02J-104	M.G.RESISTOR	100K 1/10W
R6	NRSA02J-104	M.G.RESISTOR	100K 1/10W
R7	NRSA02J-330	M.G.RESISTOR	33 1/10W
R8	NRSA02J-330	M.G.RESISTOR	33 1/10W
R9	NRSA02J-330	M.G.RESISTOR	33 1/10W
R10	NRSA02J-473	M.G.RESISTOR	47K 1/10W
R11	NRSA02J-473	M.G.RESISTOR	   47K
R12	NRSA02J-473	M.G.RESISTOR	47K 1/10W
R13	NRSA02J-ORO	M.G.RESISTOR	0 1/10W
R14	NRSA02J-ORO	M.G.RESISTOR	0 1/10W
R15	NRSA02J-ORO	M.G.RESISTOR	0 1/10W
R16	NRSA02J-100	M.G.RESISTOR	10 1/10W
R17	NRSA02J-100	M.G.RESISTOR	10 1/10W
R18	NRSA02J-100	M.G.RESISTOR	10 1/10W

Symbol No.	Part No.	Part Name	Description
R19	NRSA02J-100	M.G.RESISTOR	10 1/10W
R20	NRSA02J-100	M.G.RESISTOR	10 1/10W
R21	NRSA02J-100	M.G.RESISTOR	10 1/10W
R22	NRSA02J-151	M.G.RESISTOR	150 1/10W
VR1	NVP1415-203	TRIM.RESISTOR	20K Eoo
C1	NEA11EM-106	E.CAPACITOR	10 25V 10 25V
C2 C3	NEA11EM-106 NCB21EK-473	E.CAPACITOR CER.CAPACITOR	0.047 25V
C4	NCB21EK-473	CER.CAPACITOR	0.047 25V
C5	NEA11CM-226	E.CAPACITOR	22 16V
C6	NEA11AM-336	E.CAPACITOR	33 10V
C7	NCB21EK-473	CER.CAPACITOR	0.047 25V
C8	NCB21HK-103	CER.CAPACITOR	0.010 50V
C9	NCB21EK-473	CER.CAPACITOR	0.047 25V
C10	NCB21HK-103	CER.CAPACITOR	0.010 50V
C11	NCB21EK-473	CER.CAPACITOR	0.047 25V
C12	NCB21HK-103	CER.CAPACITOR	0.010 50V
C13	NCB21EK-473	CER.CAPACITOR	0.047 25V
C14	NCB21EK-473	CER.CAPACITOR	0.047 25V
C15	NEA11EM-106	E.CAPACITOR	10 25V
C16 C17	NCB21EK-473 NEA11EM-106	CER.CAPACITOR E.CAPACITOR	0.047 25V 10 25V
C17	NCB21EK-473	CER.CAPACITOR	0.047 25V
C19	NEA11EM-106	E.CAPACITOR	10 25V
C20	NCB21EK-473	CER.CAPACITOR	0.047 25V
C21	NEA11AM-336	E.CAPACITOR	33 10V
C22	NCB21EK-473	CER.CAPACITOR	0.047 25V
C23	NCB21EK-473	CER.CAPACITOR	0.047 25V
C24	NCB21EK-473	CER.CAPACITOR	0.047 25V
C25	NCB21EK-473	CER.CAPACITOR	0.047 25V
C26 C27	NCB21EK-473 NCB21EK-473	CER.CAPACITOR CER.CAPACITOR	0.047 25V 0.047 25V
C27	NCB21EK-473	CER.CAPACITOR	0.047 25V
C29	NCB21EK-473	CER.CAPACITOR	0.047 25V
C30	NCB21EK-473	CER.CAPACITOR	0.047 25V
C31	NCB21EK-473	CER.CAPACITOR	0.047 25V
C32	NCB21EK-473	CER.CAPACITOR	0.047 25V
C33 C34	NCB21EK-473 NCB21EK-473	CER.CAPACITOR CER.CAPACITOR	0.047 25V 0.047 25V
C34	NCB21EK-473	CER.CAPACITOR	0.047 25V
C36	NEA10JM-337	E.CAPACITOR	330 6.3V
C37	NEA10JM-337	E.CAPACITOR	330 6.3V
C38	NCB21EK-473	CER.CAPACITOR	0.047 25V
C39	NEA10JM-107	E.CAPACITOR	100 6.3V
C40	NCB21EK-473	CER.CAPACITOR	0.047 25V
C41	NEA11CM-226	E.CAPACITOR	22 16V
C42	NEF11AM-225	TAN.CAPACITOR	2.2 10V
C43	NEF11AM-225	TAN.CAPACITOR	2.2 10V
C44	NEF11AM-225	TAN.CAPACITOR	2.2 10V
L1	SSV1330-150	COIL	15μΗ
CN6	SSV1321-015	CONNECTOR	15 PIN
CN7	SSV1321-015	CONNECTOR	15 PIN
CN8	SSV1321-015	CONNECTOR	15 PIN
CN9	SCV1815-026	CONNECTOR	26 PIN

#### 7.3 ISB board assembly list 01 <SCK2367-03-00A>

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Symbol No.	Part No.	Part Name	Descri	ption	Symbol No.	Part No.	Part Name	Descr	iption
Q1	2SC3930(BC)	TRANSISTOR	MATSUSHITA		Q1	2SC3930(BC)	TRANSISTOR	MATSUSHITA	
Q2	2SA1532(BC)	SI.TRANSISTOR	MATSUSHITA		Q2	2SA1532(BC)	SI.TRANSISTOR	MATSUSHITA	
Q3	3SK157	F.E.T.	NEC	l	Q3	3SK157	F.E.T.	NEC	•
Q4	2SA1532(BC)	SI.TRANSISTOR	MATSUSHITA	ĺ	Q4	2SA1532(BC)	SI.TRANSISTOR	MATSUSHITA	
Ω5	2SC3930(BC)	TRANSISTOR	MATSUSHITA	-	Q5	2SC3930(BC)	TRANSISTOR		
Q6	3SK157	F.E.T.	NEC	ŀ	Q6	3SK157	1	MATSUSHITA	•
Q7	2SA1622(M6)	TRANSISTOR	SANYO			i e	F.E.T.	NEC	
Q8	2SC3930(BC)			1	Q7	2SA1622(M6)	TRANSISTOR	SANYO	
uо	25C393U(BC)	TRANSISTOR	MATSUSHITA		Q8	2SC3930(BC)	TRANSISTOR	MATSUSHITA	
	1			1	Q9	3SK157	F.E.T.	NEC	
	1				Q10	2SA1622(M6)	TRANSISTOR	SANYO	
D1	MA142A	DIODE	MATSUSHITA		Q11	2SC3930(BC)	TRANSISTOR	MATSUSHITA	
R1	NRSA02J-105	M.G.RESISTOR	1.0M	1/10/4/					
R2				1/10W	1			F	
	NRSA02J-391	M.G.RESISTOR	390	1/10W	D1	MA142A	DIODE	MATSUSHITA	
R3	NRSA02J-184	M.G.RESISTOR	180K	1/10W	ĺ				
R4	NRSA02J-273	M.G.RESISTOR	27K	1/10W					
R5	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R1	NRSA02J-105	M.G.RESISTOR	1.0M	1/10W
R6	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W	R2	NRSA02J-391	M.G.RESISTOR	390	1/10W
R7	NRSA02J-273	M.G.RESISTOR	27K	1/10W	R3	NRSA02J-184	M.G.RESISTOR	180K	1/10W
R8	NRSA02J-104	M.G.RESISTOR	100K	1/10W	R4	NRSA02J-273	M.G.RESISTOR	27K	1/10W
R9	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R5	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
R10	NRSA02J-101	M.G.RESISTOR	100	1/10W	R6	NRSA02J-222	M.G.RESISTOR	2.2K	
	1.1.07.020 107	M. d. N. E. O. O. T. O. T.	1,00	.,,,,,,	R7	NRSA02J-273			1/10W
R11	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W			M.G.RESISTOR	27K	1/10W
	i	1			R8	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R12	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R9	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
R13	NRSA02J-221	M.G.RESISTOR	220	1/10W	R10	NRSA02J-101	M.G.RESISTOR	100	1/10W
R14	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	ŀ				
R15	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R11	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R16	NRSA02J-221	M.G.RESISTOR	220	1/10W	R12	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
R17	NRSA02J-152	M.G.RESISTOR	1.5K	1/10W	R13	NRSA02J-221	M.G.RESISTOR	220	1/10W
R18	NRSA02J-100	M.G.RESISTOR	10	1/10W	R14	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
					R15	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
				i	R16	NRSA02J-221	M.G.RESISTOR	220	1/10W
C1	NEF11EM-475	TAN.CAPACITOR	4.7	25V	R17	NRSA02J-152	M.G.RESISTOR	1.5K	1/10W
C2	NEF11VM-105	TAN.CAPACITOR	1.0	35V	R18	NRSA02J-472	i		
C3	NCB21EK-473	CER.CAPACITOR	0.047	25V	1		M.G.RESISTOR	4.7K	1/10W
C4	NCB21EK-473		0.047		R19	NRSA02J-221	M.G.RESISTOR	220	1/10W
	· ·	CER.CAPACITOR	1	25V	R20	NRSA02J-152	M.G.RESISTOR	1.5K	1/10W
C5	NCB21EK-473	CER.CAPACITOR	0.047	25V					
C6	NEA10GM-476	E.CAPACITOR	47	4V	R21	NRSA02J-100	M.G.RESISTOR	10	1/10W
C7	NEF11AM-225	TAN.CAPACITOR	2.2	10V					
C8	NEF11AM-156	TAN.CAPACITOR	15	10V					
C9	NEF11VM-105	TAN.CAPACITOR	1.0	35V	C1	NEF11EM-475	TAN.CAPACITOR	4.7	25V
C10	NCTO3CH-101	CER.CAPACITOR	100P	50V	C2	NEF11VM-105	TAN.CAPACITOR	1.0	35V
				1	C3	NCB21EK-473	CER.CAPACITOR	0.047	25V
C11	NEF10GM-106	TAN.CAPACITOR	10	4V	C4	NCB21EK-473	CER.CAPACITOR	0.047	25V
C12	NCTO3CH-560	CER.CAPACITOR	56P	50V	C5	NCB21EK-473	CER.CAPACITOR	0.047	25V
			100.		C6	NEA10GM-476	E.CAPACITOR	ī	
				ł	C7		[	47	4V
CN3	CCV/1770 000	COMMITTOE	O DIN		1	NEF11AM-225	TAN.CAPACITOR	2.2	10V
	SCV1770-003	CONNECTOR	3 PIN		C8	NEF11AM-156	TAN.CAPACITOR	15	10V
CN6	SSV 1321-015	CONNECTOR	15 PIN		C9	NEF11VM-105	TAN.CAPACITOR	1.0	35V
					C10	NCT03CH-101	CER.CAPACITOR	100P	50V
					C11	NEF10GM-106	TAN.CAPACITOR	10	4V
					C12	NCT03CH-560	CER.CAPACITOR	56P	50V
					C13	NCT03CH-330	CER.CAPACITOR	33P	50V
					CNA	\$C\/1770_000	CONNECTOR	0 800	
					CN4 CN7	SCV1770-003 SSV1321-015	CONNECTOR CONNECTOR	3 PIN 15 PIN	

### 7.5 ISR board assembly list 03 <SCK2367-05-00A

03

7.6 PA board assembly list 04 <SCK2367-06-00A

(SCK2367-05-00A) 0 3					
Symbol No.	Part No.	Part Name	Description		
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8	2SC3930(BC) 2SA1532(BC) 3SK157 2SA1532(BC) 2SC3930(BC) 3SK157 2SA1622(M6) 2SC3930(BC)	TRANSISTOR SI.TRANSISTOR F.E.T. SI.TRANSISTOR TRANSISTOR F.E.T. TRANSISTOR TRANSISTOR	MATSUSHITA MATSUSHITA NEC MATSUSHITA MATSUSHITA NEC SANYO MATSUSHITA		
D1	MA142A	DIODE	MATSUSHITA		
R1 R2 R3 R4 R5 R6 R7 R8	NRSA02J-105 NRSA02J-391 NRSA02J-184 NRSA02J-273 NRSA02J-472 NRSA02J-222 NRSA02J-273 NRSA02J-104 NRSA02J-472	M.G.RESISTOR	1.0M 1/10W 390 1/10W 180K 1/10W 27K 1/10W 4.7K 1/10W 2.2K 1/10W 27K 1/10W 100K 1/10W 4.7K 1/10W		
R10 R11 R12 R13 R14 R15 R16 R17	NRSA02J-101 NRSA02J-102 NRSA02J-472 NRSA02J-221 NRSA02J-102 NRSA02J-472 NRSA02J-221 NRSA02J-152 NRSA02J-100	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1.0K 1/10W 4.7K 1/10W 220 1/10W 1.0K 1/10W 4.7K 1/10W 4.7K 1/10W 220 1/10W 1.5K 1/10W 10 1/10W		
C1 C2 C3 C4 C5 C6 C7 C8 C9	NEF11EM-475 NEF11VM-105 NCB21EK-473 NCB21EK-473 NCB21EK-473 NEA10GM-476 NEF11AM-225 NEF11AM-156 NEF11VM-105 NCT03CH-101	TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR	4.7 25V 1.0 35V 0.047 25V 0.047 25V 0.047 25V 47 4V 2.2 10V 15 10V 1.0 35V 100P 50V		
C11 C12	NEF10GM-106 NCT03CH-560	TAN.CAPACITOR CER.CAPACITOR	10 4V 56P 50V		
CN5 CN8	SCV1770-003 SSV1321-015	CONNECTOR CONNECTOR	3 PIN 15 PIN		

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Symbol No.	Part No.	Part Name	Description
IC1	NJM062M	I.C.(M)	JRC
IC2	NJM062M	I.C.(M)	JRC
1C3	NJM062M	I.C.(M)	JRC
IC4	MC74HC4053F	I.C.(M)	MOTOROLA
IC5	TC4S69F	1.C.(M)	TOSHIBA
I ICS	E .		TOSHIBA
100	TC4S69F	I.C.(M)	TOSHIBA
Ω1	2SK662(QR)	FET	MATSUSHITA
02	2SC3932(ST)	TRANSISTOR	MATSUSHITA
Q3	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q4	2SK662(QR)	FET	MATSUSHITA
Ω5	2SA1532(BC)	SI.TRANSISTOR	MATSUSHITA
Q6	2SK662(QR)	FET	MATSUSHITA
Q7	2SC3932(ST)	TRANSISTOR	MATSUSHITA
08	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Ω9	2SK662(QR)	FET	MATSUSHITA
Q10	2SA1532(BC)	SI.TRANSISTOR	MATSUSHITA
Q11	2SK662(QR)	FET	MATSUSHITA MATSUSHITA
Q12 Q13	2SC3932(ST) 2SC3930(BC)	TRANSISTOR TRANSISTOR	MATSUSHITA
Q14	2SK662(QR)	FET.	MATSUSHITA
Q14 Q15	2SA1532(BC)	1	
		SI.TRANSISTOR FET	MATSUSHITA
Q16	2SK662(QR)	1	MATSUSHITA
Q17 Q18	2SC3930(BC)	TRANSISTOR FET	MATSUSHITA
	2SK662(QR)	1	MATSUSHITA
Q19	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q20	2SK662(QR)	FET	MATSUSHITA
Q21	2SC3930(BC)	TRANSISTOR	MATSUSHITA
R2	NRSA02J-333	M.G.RESISTOR	224 1/10/4/
R3	NRSA02J-333	M.G.RESISTOR	33K 1/10W 1/10W
R4	NRSA02J-102	M.G.RESISTOR	1
R5	NRSA02J-472	M.G.RESISTOR	
R6	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W 4.7K 1/10W
R7	NRSA02J-681	M.G.RESISTOR	680 1/10W
R8	NRSA02J-222	M.G.RESISTOR	
R9	NRSA02J-392	M.G.RESISTOR	
R10	NRSA02J-333	M.G.RESISTOR	3.9K 1/10W 33K 1/10W
R11	NRSA02J-473	M.G.RESISTOR	47K 1/10W
1,,,,	WN3A023*473	M.G.RESISTOR	1/1000
R12	NRSA02J-101	M.G.RESISTOR	100 1/10W-
R13	NRSA02J-392	M.G.RESISTOR	3.9K 1/10W
R14	NRSA02J-0R0	M.G.RESISTOR	0 1/10W
R15	NRSA02J-564	M.G.RESISTOR	560K 1/10W
R16	NRSA02J-564	M.G.RESISTOR	560K 1/10W
R18	NRSA02J-333	M.G.RESISTOR	33K 1/10W
R19	NRSA02J-102	M.G.RESISTOR	1.0K 1/10W
R20	NRSA02J-102	M.G.RESISTOR	1.0K 1/10W
R21	NRSA02J~472	M.G.RESISTOR	4.7K 1/10W
R22	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W
Baa	NIBCAGO L GGG	M.C. DECISTOR	0.00
R23	NRSA02J-822	M.G.RESISTOR	8.2K 1/10W
R24	NRSA02J-681	M.G.RESISTOR	680 1/10W
R25	NRSA02J-222	M.G.RESISTOR	2.2K 1/10W
R26	NRSA02J-392	M.G.RESISTOR	3.9K 1/10W
R27	NRSA02J-333	M.G.RESISTOR	33K 1/10W
R28	NRSA02J-473	M.G.RESISTOR	47K 1/10W
R29	NRSA02J~101	M.G.RESISTOR	100 1/10W
R30	NRSA02J-392	M.G.RESISTOR	3.9K 1/10W
R32 R33	NRSA02J-564	M.G.RESISTOR	560K 1/10W
1133	NRSA02J-564	M.G.RESISTOR	560K 1/10W

[PA]

Symbol No.	Part No.	Part Name	D	escription	Symbol No.	Part No.	Part Name	Descr	iption
R35	NRSA02J-333	M.G.RESISTOR	33K	1/10W	C21	NEA11AM-336	E.CAPACITOR	33	10V
R36	NRSA02J~102	M.G.RESISTOR	1.0K	1/10W	C22	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R37	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	C23	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R38	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	C24	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R39	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	C25	NCT03CH-220	CER.CAPACITOR	22P	50V
R40	NRSA02J-822	M.G.RESISTOR	8.2K	1/10W	C26	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R41	NRSA02J-681	M.G.RESISTOR	680	1/10W	C27	NEN11HM-105	E.CAPACITOR	1.0	50V
R42	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W	C28	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R43	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W	C29	NEN11HM-105	E.CAPACITOR	1.0	50V
R44	NRSA02J-333	M.G.RESISTOR	33K	1/10W	C30	NCT03CH-470	CER.CAPACITOR	47P	50V 50V
						1000011 470	CEN.CAF ACTION	4/1	500
R45	NRSA02J-473	M.G.RESISTOR	47K	1/10W	C31	NCT03CH-330	CER.CAPACITOR	33P	50V
R46	NRSA02J-101	M.G.RESISTOR	100	1/10W	C32	NEA11AM-336	E.CAPACITOR	33	10V
R47	NRSA02J-0R0	M.G.RESISTOR	0	1/10W	C33	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R48	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W	C34	NEA10JM-337	E.CAPACITOR	330	6.3V
R49	NRSA02J-564	M.G.RESISTOR	560K	1/10W	C35	NEA10JM-107	E.CAPACITOR	100	6.3V
R50	NRSA02J~564	M.G.RESISTOR	560K	1/10W	C36	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R51	NRSA02J-ORO	M.G.RESISTOR	0	1/10W	C37	NEA10JM-107	E.CAPACITOR	100	6.3V
R52	NRSA02J-101	M.G.RESISTOR	100	1/10W	C38	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R53	NRSA02J-101	M.G.RESISTOR	100	1/10W	C39	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R54	NRSA02J-101	M.G.RESISTOR	100	1/10W	C40	NCF21EZ-104	CER.CAPACITOR	0.10	25V
				İ					
R55	NRSA02J-183	M.G.RESISTOR	18K	1/10W	C41	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R56	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W					
R57	NRSA02J-683	M.G.RESISTOR	68K	1/10W					
R58	NRSA02J-333	M.G.RESISTOR	33K	1/10W	LC1	SCV1859-001	LOWPASS FILTER	10 MHz	
R59	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W	LC2	SCV1859-001	LOWPASS FILTER	10 MHz	
R60	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	LC3	SCV1859-001	LOWPASS FILTER	10 MHz	
R61	NRSA02J-683	M.G.RESISTOR	68K	1/10W	LC4	SCV2366-001	TRAP(7.16M)	7.16 MHz	
R62	NRSA02J-333	M.G.RESISTOR	33K	1/10W	LC5	SCV2366-001	TRAP(7.16M)	7.16 MHz	
R63	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W	LC6	SCV2366-001	TRAP(7.16M)	7.16 MHz	
R64	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W				,	
R65	NRSA02J-683	M.G.RESISTOR	68K	1/10W	CN3	SCV1770-003	CONNECTOR	3 PIN	
R66	NRSA02J-333	M.G.RESISTOR	33K	1/10W	CN4	SCV1770-003	CONNECTOR	3 PIN	
R67	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W	CN5	SCV1770-003	CONNECTOR	3 PIN	
					CN21	SCV1770-010	CONNECTOR	10 PIN	
					CN41	SCV1770-004	CONNECTOR	4 PIN	
VR1	NVP1416-503	TRIM.RESISTOR	50K	B BLACK					
VR2	NVP1416-503	TRIM.RESISTOR	50K	G BLACK					
VR3	NVP1416-503	TRIM.RESISTOR	50K	R BLACK					
C1	NCF21EZ-104	CER.CAPACITOR	0.10	25V					
C2	NCF21EZ-104	CER.CAPACITOR	0.10	25V 25V					
C3	NCT03CH-220	CER.CAPACITOR	22P	50V					
C4	NCF21EZ-104	CER.CAPACITOR	0.10	25V	1			1	
C5	NEN 11HM-105	E.CAPACITOR	1.0	50V					
C6	NCF21EZ-104	CER.CAPACITOR	0.10	25V	1				
C7		E.CAPACITOR							
C8	NEN 11HM-105		1.0	50V					
	NCTO3CH-470	CER.CAPACITOR	47P	50V				1	
C9	NCT03CH-330	CER.CAPACITOR	33P	50V					
C10	NEA11AM-336	E.CAPACITOR	33	10V					
C11	NCF21EZ-104	CER.CAPACITOR	0.10	25V					
C12	NCF21EZ-104	CER.CAPACITOR	0.10	25V					
C13	NCF21EZ-104	CER.CAPACITOR	0.10	25V					
C14	NCT03CH-220	CER.CAPACITOR	22P	50V	1				
C15	NCF21EZ-104	CER.CAPACITOR	0.10	25V				1	
C16	NEN 11HM-105	E.CAPACITOR	1.0	50V			1		
C17	NCF21EZ-104	CER.CAPACITOR	0.10	25V					
C18	NEN 11HM-105	E.CAPACITOR	1.0	50V					
C19	NCT03CH-470	CER.CAPACITOR	47P	50V					
C20	NCT03CH-330	CER.CAPACITOR	33P	50V					
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#### 7.7 PR1 board assembly list 07 <SCK2307-03-01B>

Symbol No.	Part No.	Part Name	Description
IC1	NJM062M	I.C.(M)	JRC
IC2	NJM062M	I.C.(M)	JRC
IC3	NJM1496M	I.C.(M)	JRC
			JRC
IC4	NJM062M	I.C.(M)	
IC5	NJM062M	I.C.(M)	JRC
IC6	NJM062M	I.C.(M)	JRC
IC7	NJM1496M	I.C.(M)	JRC
IC8	NJM062M	1.C.(M)	JRC
IC9	NJM062M	I.C.(M)	JRC
			JRC
IC10	NJM062M	I.C.(M)	Jnc
IC11	NJM1496M	I.C.(M)	JRC
IC12	NJM062M	I.C.(M)	JRC
IC13	NJM2902M	I.C(MONO-ANA)	JRC
IC14	MB88342PF	1.C.(M)	FUJITSU
IC16	NJM062M	I.C.(M)	JRC
Q2	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q3	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q4	2SC3930(BC)	TRANSISTOR	MATSUSHITA
		TRANSISTOR	MATSUSHITA
Q5	2SC3930(BC)		
Q6	2SK662(QR)	FET	MATSUSHITA
<b>Q</b> 7	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q8	CXD7500M	F.E.T.	SONY
Q9	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q1.1	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q12	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q1Z	2303830(BC)	THANSISTUR	INIATOOSTILIA
Q13	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q14	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q15	2SK662(QR)	FET	MATSUSHITA
		1	MATSUSHITA
Q16	2SC3930(BC)	TRANSISTOR	
Q17	CXD7500M	F.E.T.	SONY
Q18	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q20	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q21	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q22	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q23	2SC3930(BC)	TRANSISTOR	MATSUSHITA
024	ackees(ob)	EET	MATCHCHITA
Q24	2SK662(QR)	FET	MATSUSHITA
Q25	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q26	CXD7500M	F.E.T.	SONY
Q27	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q33	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q34	2SB1219(QR)	TRANSISTOR	MATSUSHITA
		i	
Q35	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q36	2SB1219(QR)	TRANSISTOR	MATSUSHITA
Q37	2SK662(QR)	FET	MATSUSHITA
Q38	2SK662(QR)	FET	MATSUSHITA
Q39	2SK662(QR)	FET	MATSUSHITA
Q40	2SA1532(BC)	SI.TRANSISTOR	MATSUSHITA
			1
Q41	2SA1532(BC)	SI.TRANSISTOR	MATSUSHITA
Q42	2SA1532(BC)	SI.TRANSISTOR	MATSUSHITA
	2SA1622(M6)	TRANSISTOR	SANYO
Q43	2SA1622(M6)	TRANSISTOR	SANYO
Q43 Q44	LOWING		SANYO
Q44		LTRANSISTOR	
Q44 Q45	2SA1622(M6)	TRANSISTOR	
Q44		TRANSISTOR	MATSUSHITA
Q44 Q45 Q46	2SA1622(M6) 2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q44 Q45 Q46 D1	2SA1622(M6) 2SC3930(BC) MA142A	TRANSISTOR	MATSUSHITA  MATSUSHITA
Q44 Q45 Q46	2SA1622(M6) 2SC3930(BC)	TRANSISTOR	MATSUSHITA

Symbol	Part No.	Part Name	Descript	tion
No.				4140141
R1	NRSA02J-330	M.G.RESISTOR	33	1/10W
R2	NRSA02J-471	M.G.RESISTOR	470	1/10W
R4	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R5	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
R6	NRSA02J-101	M.G.RESISTOR	100	1/10W
R7	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R8	NRSA02J-103	M.G.RESISTOR	10K	1/10W
R9	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
R10	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R11	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
R12	NRSA02J-471	M.G.RESISTOR	470	1/10W
R13	NRSA02J-333	M.G.RESISTOR	33K	1/10W
R14	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R15	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W
R16	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R17	NRSA02J-105	M.G.RESISTOR	1.0M	1/10W
R19	NRVA02D-3301	M.F.RESISTOR	3.30K	1/10W
R20	NRSA02J-103	M.G.RESISTOR	10K	1/10W
R21	NRSA02J-103	M.G.RESISTOR	10K	1/10W
R22	NRSA02J-473	M.G.RESISTOR	47K	1/10W
n22	NH3A023-473	W.G.NESISTON	471	171044
R23	NRSA02J-393	M.G.RESISTOR	39K	1/1 <b>0W</b>
R24	NRSA02J-101	M.G.RESISTOR	100	1/10W
R25	NRSA02J-101	M.G.RESISTOR	100	1/10W
R26	NRSA02J-101	M.G.RESISTOR	3.9K	1/10W
	1		2.7K	1/10W
R27	NRSA02J-272	M.G.RESISTOR		
R28	NRSA02J-221	M.G.RESISTOR	220	1/10W
R29	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W
R30	NRSA02J-823	M.G.RESISTOR	82K	1/10W
R31	NRSA02J-333	M.G.RESISTOR	33K	1/10W
R32	NRSA02J-272	M.G.RESISTOR	2.7K	1/10W
R33	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R34	NRSA02J-101	M.G.RESISTOR	100	1/10W
R35	NRVA02D-3302	M.F.RESISTOR	33.0K	1/10W
R36	NRVA02D-3302 NRVA02D-1802	M.F.RESISTOR	18.0K	1/10W
	l .			
R39	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R40	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
R41	NRSA02J-101	M.G.RESISTOR	100	1/10W
R42	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R43	NRSA02J-103	M.G.RESISTOR	10K	1/10W
R44	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
DAE	NIDOAGO L 100	M C DECICEOD	1.04	1/1/01/4/
R45	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R46	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
R47	NRSA02J-471	M.G.RESISTOR	470	1/10W
R48	NRSA02J-333	M.G.RESISTOR	33K	1/10W
R49	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R50	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W
R51	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R52	NRSA02J-105	M.G.RESISTOR	1.0M	1/10W
R54	NRVA02D-3301	M.F.RESISTOR	3.30K	1/10W
R55	NRSA02J-103	M.G.RESISTOR	10K	1/10W
R56	NRSA02J-103	M.G.RESISTOR	10K	1/10W
R57	NRSA02J-473	M.G.RESISTOR	47K	1/10W
R58	NRSA02J-393	M.G.RESISTOR	39K	1/10W
R61	NRSA02J-101	M.G.RESISTOR	100	1/10W
R62	NRSA02J-101	M.G.RESISTOR	100	1/10W
R63	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R64	NRSA02J-272	M.G.RESISTOR	2.7K	1/10W
R65	NRSA02J-221	M.G.RESISTOR	220	1/10W
R66	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W
R67	NRSA02J-272	M.G.RESISTOR	2.7K	1/10W

[PR1]

Symbol No.	Part No.	Part Name	Des	scription	Symbol No.	Part No.	Part Name		Description
R68	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	R154	NRSA02J-101	M.G.RESISTOR	100	1/10W
R69	NRVA02D-3302	M.F.RESISTOR	33.0K	1/10W	R155	NRSA02J-101	M.G.RESISTOR	100	1/10W
R70	NRVA02D-1802	M.F.RESISTOR	18.0K	1/10W	R156	NRSA02J-101	M.G.RESISTOR	100	1/10W
R74	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	R157	NRSA02J-101	M.G.RESISTOR	100	1/10W
R75	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R158	NRSA02J-102	ř	1	
R76	NRSA02J-101	M.G.RESISTOR	100	1/10W	R159	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R77	NRSA02J-101	1	1.2K			I .	M.G.RESISTOR	1.0K	1/10W
	1	M.G.RESISTOR	i i	1/10W	R160	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R78	NRSA02J-182	M.G.RESISTOR	1.8K	1/10W	R161	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R79	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R162	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R80	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	R163	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R81	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W	R164	NRSA02J-103	M.G.RESISTOR	10K	1/10W
R82	NRSA02J-471	M.G.RESISTOR	470	1/10W	R165	NRSA02J-333	M.G.RESISTOR	33K	1/10W
R83	NRSA02J-333	M.G.RESISTOR	33K	1/10W	R168	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R84	NRSA02J-183	M.G.RESISTOR	18K	1/10W	R169	NRSA02J-471	M.G.RESISTOR	470	1/10W
R85	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W	R170	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R86	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W	R171	NRSA02J-100	M.G.RESISTOR	10	1/10W
R87	NRSA02J-105	M.G.RESISTOR	1.0M	1/10W	R172	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R89	NRVA02D-3301	M.F.RESISTOR	3.30K	1/10W	R173	NRSA02J-471	M.G.RESISTOR	470	1/10W
R90	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R174	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R91	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R175	NRSA02J-100	M.G.RESISTOR	10	1/10W
R92	NRSA02J-473	M.G.RESISTOR	47K	1/10W	R176	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R93	NRSA02J-393	M.G.RESISTOR	39K	1/10W	R177	NRSA02J-471		1	
R94	NRSA02J-101	M.G.RESISTOR	100	1/10W			M.G.RESISTOR	470	1/10W
R95	NRSA02J-101			I	R178	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
	NRSA02J-101	M.G.RESISTOR	100	1/10W	R179	NRSA02J-100	M.G.RESISTOR	10	1/10W
R96		M.G.RESISTOR	3.9K	1/10W	R180	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R97	NRSA02J-272	M.G.RESISTOR	2.7K	1/10W	R181	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R98	NRSA02J-221	M.G.RESISTOR	220	1/10W	R182	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R99	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W	R183	NRSA02J-221	M.G.RESISTOR	220	1/10W
R100	NRSA02J-104	M.G.RESISTOR	100K	1/10W	R184	NRSA02J-221	M.G.RESISTOR	220	1/10W
R101	NRSA02J-333	M.G.RESISTOR	33K	1/10W	R185	NRSA02J-221	M.G.RESISTOR	220	1/10W
R102	NRSA02J-272	M.G.RESISTOR	2.7K	1/10W	R186	NRSA02J-682	M.G.RESISTOR	6.8K	1/10W
R103	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	R187	NRSA02J-221	M.G.RESISTOR	220	1/10W
R104	NRSA02J-101	M.G.RESISTOR	100	1/10W	R188	NRSA02J-ORO	M.G.RESISTOR	0	1/10W
R105	NRVA02D-3302	M.F.RESISTOR	33.0K	1/10W	R189	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R106	NRVA02D-1802	M.F.RESISTOR	18.0K	1/10W	R190	NRSA02J-102	M.G.RESISTOR	1.0K	
R127	NRSA02J-101	M.G.RESISTOR	100	1/10W	R191				1/10W
R128	NRSA02J-101	M.G.RESISTOR	100		1	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R129		M.G.RESISTOR		1/10W	R192	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
	NRSA02J-101	1	100	1/10W	R193	NRSA02J-101	M.G.RESISTOR	100	1/10W
R130	NRSA02J-104	M.G.RESISTOR	100K	1/10W	R194	NRSA02J-101	M.G.RESISTOR	100	1/10W
R131	NRSA02J-104	M.G.RESISTOR	100K	1/10W	R195	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R132	NRSA02J104	M.G.RESISTOR	100K	1/10W	R196	NRSA02J-102	M.G.RESISTOR	1.0K	1/ <b>10W</b>
R133	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	1				
R134	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W					
R135	NRSA02J~472	M.G.RESISTOR	4.7K	1/10W	VR1	NVP1416-103	TRIM.RESISTOR	10K	B IN GAIN
R136	NRSA02J-101	M.G.RESISTOR	100	1/10W	VR2	NVP1416-502	TRIM.RESISTOR	5K	G IN GAIN
R137	NRSA02J-561	M.G.RESISTOR	560	1/10W	VR3	NVP1416-502	TRIM.RESISTOR	5K	R IN GAIN
R138	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	VR4	NVP1416-502	TRIM.RESISTOR	5K	B HI GAIN
R139	NRSA02J-104	M.G.RESISTOR	100K	1/10W	VR5	NVP1416-502	TRIM.RESISTOR	5K	G HI GAIN
R140	NRSA02J-103	M.G.RESISTOR	10K	1/10W	VR6	NVP1416-502	TRIM.RESISTOR	5K	R HI GAIN
R141	NRSA02J-122	M.G.RESISTOR	1.2K	1/10W	VR11				
11171	MISAUZJ-122	W.G.NESISTON	1.21	171000	1	NVP1416-503	TRIM.RESISTOR	50K	B DC BAL
D142	NIDO ACO L COO	M C. PECICTOR	2 24	1/10/4/	VR12	NVP1416-503	TRIM.RESISTOR	50K	G DC BAL
R143	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	VR13	NVP1416-503	TRIM.RESISTOR	50K	R DC BAL
R144	NRSA02J-101	M.G.RESISTOR	100	1/10W					
R145	NRSA02J-561	M.G.RESISTOR	560	1/10W					
R146	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	C1	NEA10JM-337	E.CAPACITOR	330	6.3V
R147	NRSA02J-104	M.G.RESISTOR	100K	1/10W	C2	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R148	NRSA02J-103	M.G.RESISTOR	10K	1/10W	C3	NEA10JM-337	E.CAPACITOR	330	6.3V
R149	NRSA02J-122	M.G.RESISTOR	1.2K	1/10W	C4	NEA10JM-337	E.CAPACITOR	330	6.3V
R151	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	C5	NCF21EZ-104	CER.CAPACITOR	0.10	25V
11131		ł .	i		1			1	
R152	NRSA02J-101	M.G.RESISTOR	100	1/10W	C6	NEA10JM-107	E.CAPACITOR	100	6.3V

Symbol No.	Part No.	Part Name	Descri	ption
. C8	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C9	NCT03CH-390	CER.CAPACITOR	39P	50V
C10	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C11	NCT03CH-100	CER.CAPACITOR	10P	50V
C12	NCT03CH-470	CER.CAPACITOR	47P	50V
C13	NEN11HM-105	E.CAPACITOR	1.0	50V
C14	NEN11HM-105	E.CAPACITOR	1.0	50V
C15	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C16	NCF21HZ-103	CER.CAPACITOR	0.010	50V
C17	NCT03CH-4R0	CER.CAPACITOR	4.0P	50V
C18	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C19	NCF21EZ-104	CER,CAPACITOR	0.10	25V
C20	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C21	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C22	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C23	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C24	NEA10JM-107	E.CAPACITOR	100	6.3V
C25	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C26	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C27	NCT03CH-390	CER.CAPACITOR	39P	50V
C28	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C30	NCT03CH-470	CER.CAPACITOR	47P	50V
C31	NEN11HM-105	E.CAPACITOR	1.0	50V
C32	NEN11HM-105	E.CAPACITOR	1.0	50V
C33	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C34	NCF21HZ-103	CER.CAPACITOR	0.010	50V
C35	NCT03CH-4R0	CER.CAPACITOR	4.0P	50V
C36	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C37	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C38	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C39	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C40	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C42	NEA10JM-107	E.CAPACITOR	100	6.3V
C43	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C44	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C45	NCT03CH-390	CER.CAPACITOR	39P	50V
C46	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C47	NCT03CH-220	CER.CAPACITOR	22P	50V
C48	NCT03CH-470	CER.CAPACITOR	47P	50V
C49	NEN11HM-105	E.CAPACITOR	1.0	50V
C50	NEN11HM-105	E.CAPACITOR	1.0	50V
C51	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C52	NCF21HZ-103	CER.CAPACITOR	0.010	50V
C53	NCT03CH-4R0	CER.CAPACITOR	4.0P	50V
C54	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C55	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C56	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C57	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C58	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C59	NCF21EZ~104	CER.CAPACITOR	0.10	25V
C70	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C71	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C72	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C73	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C74	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C76	NEA10JM-107	E.CAPACITOR	100	6.3V
C77	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C78	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C79	NCF21EZ-104	CER.CAPACITOR	0.10	25V

Symbol	Part No.	Part Name	Description	
No.	7 611 140.	T dit isano	-	••
C80	NCF21EZ-104	CER.CAPACITOR		25V
C81	NCF21EZ-104	CER.CAPACITOR		25V
C82 C83	NCF21EZ-104 NCF21EZ-104	CER.CAPACITOR	1	25V
L83	NGF21EZ-104	CER.CAPACITOR	0.10	25V
C84	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C85	NEA11AM-336	E.CAPACITOR	33	10V
C86	NEA11AM-336	E.CAPACITOR	33	10V
C87	NEA11AM-336	E.CAPACITOR		10V
C89	NCF21EZ-104	CER.CAPACITOR		25V
C90	NCF21EZ-104	CER.CAPACITOR		25V
C91	NCF21EZ-104 NCF21EZ-104	CER.CAPACITOR CER.CAPACITOR		25V 25V
C93	NEF11AM-475	TAN.CAPACITOR		10V
C94	NCF21EZ-104	CER.CAPACITOR		25V
C95	NEF11AM-475	TAN.CAPACITOR		10V
C96	NCF21EZ-104	CER.CAPACITOR		25V
C97	NEF11AM-475	TAN.CAPACITOR		10V
C101	NEF11CM-106	TAN.CAPACITOR		16V
C102 C103	NEF11CM-106 NCF21HZ-103	TAN.CAPACITOR CER.CAPACITOR		16V 50V
C103	NCF21HZ-103	CER.CAPACITOR		50V 50V
C105	NCF21HZ-103	CER.CAPACITOR		50V
C106	NCT03CH-2R0	CER.CAPACITOR		50V
C108	NEF11AM-156	TAN.CAPACITOR		10V
C109	NEF11AM-156	TAN.CAPACITOR		10V
C110	NCF21EZ-104	CER.CAPACITOR		25V
C111	NCF21EZ-104	CER.CAPACITOR	0.10	25V
VC5	NAT3112-200RZ	TRIM.CAPACITOR	20P B TF	PAP
VC6	NAT3112-200RZ	TRIM.CAPACITOR	20P G TI	
VC7	NAT3112-200RZ	TRIM.CAPACITOR	20P R TI	RAP
L1	SSV1330-150	COIL	15 μH	
L2	SSV1330-150	COIL	15 μH	
L3	SCV1950-120	PEAKING COIL	12 μH	
L4	SCV1950-120	PEAKING COIL	12 μΗ	
L5	SCV1950-120	PEAKING COIL	12 µH	
DL1	SCV1253-001	DELAY LINE	140 nSEC	
DL2	SCV1253-001	DELAY LINE	140 nSEC	
CN1	SCV0501-001	CONNECTOR	30 PIN	
CN36	SCV1848-016	CONNECTOR	16 PIN	
CN37	SCV1848-030	CONNECTOR	30 PIN	
CN50	SCV1770-003	CONNECTOR	3 PIN	
TP1	SCV1880-001	TEST POINT		
TP2	SCV1880-001	TEST POINT		
TP3	SCV1880-001	TEST POINT		
TP4	SCV1880-001	TEST POINT		

# 7.8 PR2 board assembly list $\boxed{08}$ $\langle SCK2307-01-008 \rangle$

Symbol No.	Part No.	Part Name	Description
IC1	JCS0003	I.C(DIGI-MOS)	JVC
IC2	JCS0003	I.C(DIGI-MOS)	JVC
IC3	JCS0003	I.C(DIGI-MOS)	JVC
IC4	RCO64M	I.C.(MONO-ANA)	JRC
IC5	RCO64M	I.C.(MONO-ANA)	JRC
IC6	RCO64M	I.C.(MONO-ANA)	JRC
IC7	RCO64M	I.C.(MONO-ANA)	JRC
IC8	NJM062M	I.C.(M)	JRC
IC9	NJM062M	I.C.(M)	JRC
IC10	NJM062M	I.C.(M)	JRC
IC11	NJM062M	I.C.(M)	JRC
IC12	RCO64M	I.C.(MONO-ANA)	JRC
IC13	TC4S69F	I.C.(M)	TOSHIBA
IC14	TC4S69F	I.C.(M)	TOSHIBA
IC15	NJM062M	I.C.(M)	JRC
IC16	TC4S69F	I.C.(M)	TOSHIBA
IC17	SCV1360-001	I.C.(H)	Jvc
IC18	SCV1360-001	I.C.(H)	JVC
Q1	2SB1219(QR)	TRANSISTOR	MATSUSHITA
Q2	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q3	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q4	2SK662(QR)	FET	MATSUSHITA
Ω5	2SB1219(QR)	TRANSISTOR	MATSUSHITA
Q6	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q7	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q8	2SK662(QR)	FET	MATSUSHITA
Q9	2SB1219(QR)	TRANSISTOR	MATSUSHITA
Q10	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q11	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q12	2SK662(QR)	FET	MATSUSHITA
Q19	DTC124EU	TRANSISTOR	ROHM
Q20	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q21	2SC3930(BC)	TRANSISTOR	MATSUSHITA
022	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q23	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q24	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q25	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q26	2SC3930(BC)	TRANSISTOR	MATSUSHITA
007	0044500(00)	CL TRANSISTOR	AAATCUUCUUTA
Q27	2SA 1532(BC)	SI.TRANSISTOR	MATSUSHITA
Q28	DTC 124EU	TRANSISTOR	ROHM
Q29	DTA 124EU	D.TRANSISTER	ROHM
Q30	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q31	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q32	DTC124EU	TRANSISTOR	ROHM
Q33	2SA 1532(BC)	SI.TRANSISTOR	MATSUSHITA
Q34	2SA 1532(BC)	SI.TRANSISTOR	MATSUSHITA
Q35	2SA 1532(BC)	SI.TRANSISTOR	MATSUSHITA
Ω36	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q37	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q38	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q40	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q41	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q42	2SA 1532(BC)	SI.TRANSISTOR	MATSUSHITA
Q43	2SA 1532(BC)	SI.TRANSISTOR	MATSUSHITA
D.4		21025	AAA TOUICUITA
D1	MA 142A	DIODE	MATSUSHITA
D2	MA 142A	DIODE	MATSUSHITA
I			

Symbol No.	Part No.	Part Name Descriptio		
R1	NRSA02J-103	M.G.RESISTOR	10K 1/10W	
R2	NRSA02J-333	M.G.RESISTOR	33K 1/10W	
R3	NRSA02J-103	M.G.RESISTOR	10K 1/10W	
R4	NRSA02J-333	M.G.RESISTOR	33K 1/10W	
R5	NRSA02J-272	M.G.RESISTOR	2.7K 1/10W	
R6	NRSA02J-223	M.G.RESISTOR	22K 1/10W	
R7	NRSA02J-273	M.G.RESISTOR	27K 1/10W	
R8	NRSA02J-151	M.G.RESISTOR	150 1/10W	
R9	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W	
R10	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W	
R11	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W	
R12	NRSA02J-562	M.G.RESISTOR	5.6K 1/10W	
R13	NRSA02J-101	M.G.RESISTOR	100 1/10W	
R14	NRSA02J-102	M.G.RESISTOR	1.0K 1/10W	
R15	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W	
R16	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W	
R17	NRSA02J-102	M.G.RESISTOR	1.0K 1/10W	
R18	NRSA02J-101	M.G.RESISTOR	100 1/10W	
R19 R20	NRSA02J-103 NRSA02J-222	M.G.RESISTOR	10K 1/10W 2.2K 1/10W	
R20	NRSAUZJ-ZZZ	M.G.RESISTOR	2.2K 1/104V	1
R21	NRSA02J-223	M.G.RESISTOR	22K 1/10W	
R22	NRSA02J-183	M.G.RESISTOR	18K 1/10W	
R23	NRSA02J-101	M.G.RESISTOR	100 1/10W	
R24	NRSA02J-562	M.G.RESISTOR	5.6K 1/10W	
R25	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W	
R26	NRSA02J-103	M.G.RESISTOR	10K 1/10W	1
R27	NRSA02J-333	M.G.RESISTOR	33K 1/10W	
R28	NRSA02J-103	M.G.RESISTOR	10K 1/10W	
R29	NRSA02J-333	M.G.RESISTOR	33K 1/10W	١
R30	NRSA02J-272	M.G.RESISTOR	2.7K 1/10W	
R31	NRSA02J-223	M.G.RESISTOR	22K 1/10W	
R32	NRSA02J-273	M.G.RESISTOR	27K 1/10W	
R33	NRSA02J-151	M.G.RESISTOR	150 1/10W	
R34	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W	
R35	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W	
R36	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W	
R37	NRSA02J-562	M.G.RESISTOR	5.6K 1/10W	
R38	NRSA02J-101	M.G.RESISTOR	100 1/10W	
R39 R42	NRSA02J-102 NRSA02J-101	M.G.RESISTOR M.G.RESISTOR	1.0K 1/10W 100 1/10W	
N42	NRSAUZJ-101	W.G.RESISTOR	171000	
R43	NRSA02J-103	M.G.RESISTOR	10K 1/10W	
R44	NRSA02J-222	M.G.RESISTOR	2.2K 1/10W	ļ
R45	NRSA02J-223	M.G.RESISTOR	22K 1/10W	
R46	NRSA02J-183	M.G.RESISTOR	18K 1/10W	
R47	NRSA02J-101	M.G.RESISTOR	100 1/10W	
R48	NRSA02J-562	M.G.RESISTOR	5.6K 1/10W	
R49	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W	
R50	NRSA02J-103 NRSA02J-333	M.G.RESISTOR	10K 1/10W	
R51 R52	NRSA02J-333 NRSA02J-103	M.G.RESISTOR M.G.RESISTOR	33K 1/10W 10K 1/10W	
1102	11100020 100	M.G.HESIO   OR	1/1044	
R53	NRSA02J-333	M.G.RESISTOR	33K 1/10W	-
R54	NRSA02J-272	M.G.RESISTOR	2.7K 1/10W	ļ
R55	NRSA02J-223	M.G.RESISTOR	22K 1/10W	ı
R56	NRSA02J-273	M.G.RESISTOR	27K 1/10W	-
R57	NRSA02J-151 NRSA02J-332	M.G.RESISTOR M.G.RESISTOR	150 1/10W 3.3K 1/10W	-
R58 R59	NRSA02J-332 NRSA02J-332	M.G.RESISTOR	3.3K 1/10W 3.3K 1/10W	-
R60	NRSA02J-332 NRSA02J-332	M.G.RESISTOR	3.3K 1/10W	ı
R61	NRSA02J-562	M.G.RESISTOR	5.6K 1/10W	ı
R62	NRSA02J-101	M.G.RESISTOR	100 1/10W	

Symbol			T _		Symbol	T	<b>.</b>		
No.	Part No.	Part Name	D	escription	No.	Part No.	Part Name	De	scription
R63	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	R139	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R64	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R140	NRSA02J-272	M.G.RESISTOR	2.7K	1/10W
R65	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R141	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R66	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W	R142	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R67	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R143	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R68	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W	R144	NRSA02J-273	M.G.RESISTOR	27K	1/10W
R69	NRSA02J-223	M.G.RESISTOR	22K	1/10W	R145	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R70	NRSA02J-183	M.G.RESISTOR	18K	1/10W	R146	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R71	NR\$A02J-101	M.G.RESISTOR	100	1/10W	R147	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R72	NRSA02J-101 NRSA02J-562	M.G.RESISTOR	5.6K	1/10W	R148	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
n/Z	NRSAU2J-502	W.G.NESISTON	5.00	171000	11140	NN3A023-472	M.d.RESISTON	4.71	171000
R73	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R149	NRSA02J-273	M.G.RESISTOR	27K	1/10W
R86	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R150	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R87	NRSA02J-821	M.G.RESISTOR	820	1/10W	R151	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R88	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R152	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R89	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R153	NRSA02J-273	M.G.RESISTOR	27K	1/10W
R90	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R154	NRSA02J-221	M.G.RESISTOR	220	1/10W
R91	NRSA02J-183	M.G.RESISTOR	18K	1/10W	R155	NRSA02J-562	M.G.RESISTOR	5.6K	1/10W
R92	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R156	NRSA02J-223	M.G.RESISTOR	22K	1/10W
		J.	4.7K		l l	NRSA02J-223	M.G.RESISTOR	3.3K	1/10W
R93	NRSA02J-472	M.G.RESISTOR	1	1/10W	R157		1		
R94	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W	R158	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R95	NRSA02J-333	M.G.RESISTOR	33K	1/10W	R159	NRSA02J-153	M.G.RESISTOR	15K	1/10W
R96	NRSA02J-683	M.G.RESISTOR	68K	1/10W	R160	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R97	NRSA02J-223	M.G.RESISTOR	22K	1/10W	R162	NRSA02J-563	M.G.RESISTOR	56K	1/10W
R98	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W	R163	NRSA02J-563	M.G.RESISTOR	56K	1/10W
R99	NRSA02J-823	M.G.RESISTOR	82K	1/10W	R164	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R100	NRSA02J-223	M.G.RESISTOR	22K	1/10W	R165	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R101	NRSA02J-223	M.G.RESISTOR	22K	1/10W	R166	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R102	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R167	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R103	NRSA02J-153	M.G.RESISTOR	15K	1/10W	R168	NRSA02J-ORO	M.G.RESISTOR	0	1/10W
R104	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R172	NRSA02J-103	M.G.RESISTOR	10K	1/10W
R105	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R173	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R106	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R174	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R107	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R177	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R108	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R178	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R111	NRSA02J-683	M.G.RESISTOR	68K	1/10W	R179	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R112	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R180	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R113	NRSA02J-153	M.G.RESISTOR	15K	1/10W	R181	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R114	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R182	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R115	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R183	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R116	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R184	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R117	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R185	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R118	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R190	NRSA02J-153	M.G.RESISTOR	15K	1/10W
R119	NRSA02J-683	M.G.RESISTOR	68K	1/10W	R191	NRSA02J-562	M.G.RESISTOR	5.6K	1/10W
R120	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R192	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
	NRSA02J-103	M.G.RESISTOR	15K	1/10W	R193	NRSA02J-222	· ·		
R121	ł .	1	1		1	1	M.G.RESISTOR	2.2K	1/10W
R122	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R194	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W
R123	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R195	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R124	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R196	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R125	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W	R197	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R128	NRSA02J-683	M.G.RESISTOR	68K	1/10W	R198	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R129	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R199	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R130	NRSA02J-153	M.G.RESISTOR	15K	1/10W	R200	NRSA02J-333	M.G.RESISTOR	33K	1/10W
R131	NRSA02J-103	M.G.RESISTOR	10K	1/10W	R201	NRSA02J-123	M.G.RESISTOR	12K	1/10W
R132	NRSA02J-564	M.G.RESISTOR	560K	1/10W	R202	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R133	NRSA02J-564	M.G.RESISTOR	560K	1/10W	R203	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W
R134	NRSA02J-684	M.G.RESISTOR	680K	1/10W	R204	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W
R135	NRSA02J-084	M.G.RESISTOR	120K	1/10W	R204	NRSA02J-332	M.G.RESISTOR	3.3K	
R136	NRSA02J-124	M.G.RESISTOR	220K	1/10W	R205	NRSA02J-332	M.G.RESISTOR	3.3K	1/10W
R137	NRSA02J-224 NRSA02J-683	M.G.RESISTOR	68K	1/10W	R206	NRSA02J-332	M.G.RESISTOR		1/10W
R138	NRSA02J-063	M.G.RESISTOR	100K	1/10W	R207	NRSA02J-104		100K	1/10W
11130	14110/4020-104	W.G.HESIS FOR	TOOK	171044	11200	INTIOAUZJ-Z/Z	M.G.RESISTOR	2.7K	1/10W

[PR2]

Symbol No.	Part No.	Part Name		Description	Symbol No.	Part No.	Part Name	Des	cription
R209	NRSA02J-272	M.G.RESISTOR	2.7K	1/10W	C29	NCF21EZ-104	CER.CAPACITOR	0.10	25V
R210	NRSA02J-561	M.G.RESISTOR	560	1/10W	C30	NCT03CH-821	CER.CAPACITOR	820P	50V
R211	NRSA02J-561	M.G.RESISTOR	560	1/10W	C31	NEF11CM-105	TAN.CAPACITOR	1.0	16V
R212	NRSA02J-101	M.G.RESISTOR	100	1/10W	50.	112	TANION ACTION	1.0	104
R213	NRSA02J-473	M.G.RESISTOR	47K	1/10W	C32	NCB21HK-333	CER.CAPACITOR	0.033	50V
R214	NRSA02J-823	M.G.RESISTOR	82K	1/10W	C34	NCF21EZ-104	CER.CAPACITOR	0.033	
R215	NRSA02J-473	M.G.RESISTOR	47K	1/10W	C35	NEA10JM-107	E.CAPACITOR	100	25V
R216	NRSA02J-823	M.G.RESISTOR	82K	1/10W	C36	NEF11EM-475	TAN.CAPACITOR		6.3V
11210	1411071020 020	Wi.d.iiLolo1011	UZIK	171044	C37	NCF21EZ-104		4.7	25V
					C37	NEA10JM-107	CER.CAPACITOR	0.10	25V
VR1	NVP1416-102	TRIM.RESISTOR	1K	B OUT GAIN	C39		E.CAPACITOR	100	6.3V
VR2	NVP1416-102	TRIM.RESISTOR	1K			NEF11CM-105	TAN.CAPACITOR	1.0	16V
VR3	NVP1416-102	TRIM.RESISTOR	1	R OUT GAIN	C40	NEF11CM-105	TAN.CAPACITOR	1.0	16V
	NVP1416-103		10K	B GAMMA	C41	NCB21HK-333	CER.CAPACITOR	0.033	50V
VR4		TRIM.RESISTOR	10K	G GAMMA	C42	NCB21HK-333	CER.CAPACITOR	0.033	50V
VR5	NVP1416-103	TRIM.RESISTOR	10K	R GAMMA					
VR6	NVP1416-103	TRIM.RESISTOR	10K	B KNEE	C43	NCF21EZ-104	CER.CAPACITOR	0.10	25V
VR7	NVP1416-103	TRIM.RESISTOR	10K	B BLACK	C44	NCF21EZ-104	CER.CAPACITOR	0.10	25V
VR8	NVP1416-103	TRIM.RESISTOR	10K	G KNEE	C45	NCF21EZ-104	CER.CAPACITOR	0.10	25V
VR9	NVP1416-103	TRIM.RESISTOR	10K	G BLACK	C46	NEN11AM-106	E.CAPACITOR	10	10V
VR10	NVP1416-103	TRIM.RESISTOR	10K	R KNEE	C47	NEF11CM-105	TAN.CAPACITOR	1.0	16V
					C48	NEN11HM-105	E.CAPACITOR	1.0	50V
VR11	NVP1416-103	TRIM.RESISTOR	10K	R BLACK	C49	NCF21EZ-104	CER.CAPACITOR	0.10	25V
VR13	NVP1416-103	TRIM.RESISTOR	10K	B FLARE	C50	NEN11HM-105	E.CAPACITOR	1.0	50V
VR14	NVP1416-103	TRIM.RESISTOR	10K	G FLARE	C51	NCT03CH-470	CER.CAPACITOR	47P	50V
VR15	NVP1416-103	TRIM.RESISTOR	10K	R FLARE	C52	NEF11CM-105	TAN.CAPACITOR	1.0	16V
VR16	NVP1416-502	TRIM.RESISTOR	5K	B W.CLIP	1		17.11.11.07.11.71.01.1011	10	100
VR17	NVP1416-502	TRIM.RESISTOR	5K	G W.CLIP	C53	NEA10JM-107	E.CAPACITOR	100	6.3V
VR18	NVP1416-502	TRIM.RESISTOR	5K	R W.CLIP	C54	NCF21EZ-104	CER.CAPACITOR	0.10	25V
VR30	NVP1415-202	TRIM.RESISTOR	2K	B+(B-G)	C55	NEA10JM-107	E.CAPACITOR	100	6.3V
VR31	NVP1415-202	TRIM.RESISTOR	2K	G+(B-G)	C56	NCF21EZ-104	CER.CAPACITOR	0.10	25V
VR32	NVP1415-102	V.RESISTOR	1K	G+(G-R)	C57	NCT03CH-821	CER.CAPACITOR	820P	
******	7777 7770	V	''`	0110111	C58	NEF11CM-105	TAN.CAPACITOR		50V
VR33	NVP1415-102	V.RESISTOR	1K	R + (R-G)	C59	NCB21HK-333		1.0	16V
VR34	NVP1415-202	TRIM.RESISTOR	2K	$R + (G-R) + (\overline{G-R})$	1		CER.CAPACITOR	0.033	50V
V110-4	1415-202	I MINI. NESISTON	21	n+10-n/+10-n/	C61	NCF21EZ-104	CER.CAPACITOR	0.10	25V
					C62	NEA10JM-107	E.CAPACITOR	100	6.3V
C1	NEA 10 IM 227	F CARACITOR	200	0.014	C63	NEF11EM-475	TAN.CAPACITOR	4.7	25V
C1	NEA10JM-337	E.CAPACITOR	330	6.3V					
C2	NCF21EZ-104	CER.CAPACITOR	0.10	25V	C64	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C3	NEA10JM-337	E.CAPACITOR	330	6.3V	C65	NEA10JM-107	E.CAPACITOR	100	6.3V
C4	NCF21EZ-104	CER.CAPACITOR	0.10	25V	C66	NEF11CM-105	TAN.CAPACITOR	1.0	16V
C5	NCB21HK-333	CER.CAPACITOR	0.033		C67	NEF11CM-105	TAN.CAPACITOR	1.0	16V
C7	NCF21EZ-104	CER.CAPACITOR	0.10	25V	C68	NCB21HK-333	CER.CAPACITOR	0.033	50V
C8	NEA10JM-107	E.CAPACITOR	100	6.3V	C69	NCB21HK-333	CER.CAPACITOR	0.033	50V
C9	NEF11EM-475	TAN.CAPACITOR	4.7	25V	C70	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C10	NCF21EZ-104	CER.CAPACITOR	0.10	25V	C71	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C11	NEA10JM-107	E.CAPACITOR	100	6.3V	C72	NCF21EZ-104	CER.CAPACITOR	0.10	25V
					C73	NEN11AM-106	E.CAPACITOR	10	10V
C12	NEF11CM-105	TAN.CAPACITOR	1.0	16V	1				
C13	NEF1 1CM-105	TAN.CAPACITOR	1.0	16V	C75	NEN11HM-105	E.CAPACITOR	1.0	50V
C14	NCB21HK-333	CER.CAPACITOR	0.033	50V	C76	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C15	NCB21HK-333	CER.CAPACITOR	0.033	I .	C77	NEN11HM-105	E.CAPACITOR	1.0	50V
C16	NCF21EZ-104	CER.CAPACITOR	0.10	25V	C78	NCT03CH-470	CER.CAPACITOR	47P	50V
C17	NCF21EZ-104	CER.CAPACITOR	0.10	25V	C79	NEF11CM-105	TAN.CAPACITOR	1.0	16V
C18	NCF21EZ-104	CER.CAPACITOR	0.10	25V	C80	NEA10JM-107	E.CAPACITOR	100	6.3V
C19	NEN 1 1AM-106	E.CAPACITOR	10	10V	C81	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C20	NEF1 1CM-105	TAN.CAPACITOR	1.0	16V	C82	NEA10JM-107	E.CAPACITOR	100	6.3V
C21	NEN 1 1 HM-105	E.CAPACITOR	1.0	50V	C83	NCF21EZ-104	CER.CAPACITOR	0.10	
		2.0.0.7007011	1.5	301	C84	NCT03CH-821	ĺ		25V
C22	NCF21EZ-104	CER.CAPACITOR	0.10	25V	U04	NC1030F-021	CER.CAPACITOR	820P	50V
C23	NEN 1 1 HM-105	E.CAPACITOR			COL	NEE110M 10F	TAN CARACTER	1.0	4.000
C23	NCTO3CH-470		1.0 47P	50V	C85	NEF11CM-105	TAN.CAPACITOR	1.0	16V
		CER.CAPACITOR		50V	C90	NEA11AM-336	E.CAPACITOR	33	10V
	NEF1 1CM-105	TAN.CAPACITOR	1.0	16V	C91	NCF21EZ-104	CER.CAPACITOR	0.10	25V
	NEA10JM-107	E.CAPACITOR	100	6.3V	C92	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C27	NCF2 1EZ-104	CER.CAPACITOR	0.10	25V	C93	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C28	NEA10JM-107	E.CAPACITOR	100	6.3V	C94	NEN11AM-106	E.CAPACITOR	10	10V

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Symbol No.	Part No.	Part Name	Description	n
C95	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C96	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C97	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C98	NCF21EZ-104	CER.CAPACITOR	0.10	25V
		050 040401700	0.10	25/
C99	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C100	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C101	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C102	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C103	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C104	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C105	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C106	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C107	NEA11AM-336	E.CAPACITOR	33	10V
C108	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C100	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C109 C110	1	TAN.CAPACITOR	0.68	20V
	NEF11DM-684		0.68	25V
C111	NCF21EZ-104	CER.CAPACITOR	1 '	25V 25V
C112	NCF21EZ-104	CER.CAPACITOR	0.10	
C113	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C114	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C115	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C116	NEA11AM-336	E.CAPACITOR	33	10V
C117	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C118	NEN11AM-106	E.CAPACITOR	10	10V
C119	NCT03CH-560	CER.CAPACITOR	56P	50V
C119	NCT03CH-560	CER.CAPACITOR	56P	50V
C120	NCT03CH-560	CER.CAPACITOR	56P	50V
		CER.CAPACITOR	10P	50V
C122	NCT03CH-100	1	10	16V
C130	NEF11CM-106	TAN.CAPACITOR	1	25V
C131	NCF21EZ-104	CER.CAPACITOR	0.10	
C132	NCF21EZ-104	CER.CAPACITOR	0.10	25V
C133	NEF11CM-105	TAN.CAPACITOR	1.0	16V
L1	SSV1330-150	COIL	15μH	
L2	SSV1330-150	COIL	15μH	
L3	SCV1950-221	PEAKING COIL	220μH	
L4	SCV1950-221	PEAKING COIL	220µH	
L5	SCV1950-221	PEAKING COIL	220µH	
S1	QSRAA12-S01	ROTARY SWITCH	MATRIX ON/OFF	:
S2	QSRAA12-S01	ROTARY SWITCH	GAMMA ON/OFF	:
CN37	SCV1849-030	CONNECTOR	30 PIN	
CN50	SCV1770-003	CONNECTOR	3 PIN	
TP1	SCV1880-001	TEST POINT		
TP2	SCV1880-001	TEST POINT		
TP3	SCV1880-001	TEST POINT		
TP4	SCV1880-001	TEST POINT		
TP5	1	TEST POINT		
		TEST POINT		
	1			
	1			
	1			
11-9	30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TEGT TOINT		
L4 L5 S1 S2 CN37 CN50 TP1 TP2 TP3 TP4	SCV1950-221 SCV1950-221 QSRAA12-S01 QSRAA12-S01 SCV1849-030 SCV1770-003 SCV1880-001 SCV1880-001 SCV1880-001	PEAKING COIL PEAKING COIL  ROTARY SWITCH ROTARY SWITCH  CONNECTOR  CONNECTOR  TEST POINT TEST POINT TEST POINT TEST POINT TEST POINT TEST POINT TEST POINT	220μH 220μH MATRIX ON/OFF GAMMA ON/OFF	

IC1
IC2
IC3
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IC10
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IC19
IC20   NJM062M   I.C.(M)   JRC   MC74HC74AF   I.C(DIGI-MOS)   MOTOROLA     IC22   S-8054HNCB   I.C.(M)   SEIKO   TOSHIBA     IC23   TC4066BF   I.C.(M)   TOSHIBA     IC24   TC7S00F   I.C.(DIGI-MOS)   MOTOROLA     IC28   MC74HC138AF   I.C(DIGI-MOS)   MOTOROLA     IC29   MC74HC04AF   I.C(DIGI-MOS)   MOTOROLA     IC31   TC4S66F   I.C.(M)   TOSHIBA     IC32   TC7S08F   I.C(DIGI-MOS)   TOSHIBA     IC32   TC7S08F   I.C(DIGI-MOS)   TOSHIBA     O3   2SC3930(BC)   TRANSISTOR   MATSUSHITA     O4   2SC3930(BC)   TRANSISTOR   MATSUSHITA     O5   2SC3930(BC)   TRANSISTOR   MATSUSHITA     O6   2SA1532(BC)   SI.TRANSISTOR   MATSUSHITA     O6   MATSUSHITA   MATSUSHITA     O6   MATSUSHITA   MATSUSHITA     O7   MATSUSHITA     O7   MATSUSHITA     O8   MA
IC21   MC74HC74AF   I.C(DIGI-MOS)   MOTOROLA     IC22   S-8054HNCB   I.C.(M)   SEIKO   TOSHIBA     IC24   TC7500F   I.C.(DIGI-MOS)   MOTOROLA     IC28   MC74HC138AF   I.C(DIGI-MOS)   MOTOROLA     IC29   MC74HC04AF   I.C(DIGI-MOS)   MOTOROLA     IC31   TC4566F   I.C.(M)   TOSHIBA     IC32   TC7508F   I.C(DIGI-MOS)   TOSHIBA     IC32   TC7508F   I.C(DIGI-MOS)   TOSHIBA     IC32   TC7508F   I.C.(DIGI-MOS)   TOSHIBA     IC32   TC7508F   I.C.(DIGI-MOS)   TOSHIBA     IC33   TC7508F   TRANSISTOR   MATSUSHITA     IC34   25C3930(BC)   TRANSISTOR   MATSUSHITA     IC35   25C3930(BC)   TRANSISTOR   MATSUSHITA     IC36   ZSA1532(BC)   SI.TRANSISTOR   MATSUSHITA     IC37
IC23
IC24
IC28
IC29   MC74HC04AF   I.C(DIGI-MOS)   MOTOROLA   TC4S66F   I.C.(M)   TOSHIBA   I.C(DIGI-MOS)   TOSHIBA   T
IC31
IC32         TC7S08F         I.C(DIGI-MOS)         TOSHIBA           Q3         2SC3930(BC)         TRANSISTOR         MATSUSHITA           Q4         2SC3930(BC)         TRANSISTOR         MATSUSHITA           Q5         2SC3930(BC)         TRANSISTOR         MATSUSHITA           Q6         2SA1532(BC)         SI.TRANSISTOR         MATSUSHITA
Q3         2SC3930(BC)         TRANSISTOR         MATSUSHITA           Q4         2SC3930(BC)         TRANSISTOR         MATSUSHITA           Q5         2SC3930(BC)         TRANSISTOR         MATSUSHITA           Q6         2SA1532(BC)         SI.TRANSISTOR         MATSUSHITA
Q4 2SC3930(BC) TRANSISTOR MATSUSHITA Q5 2SC3930(BC) TRANSISTOR MATSUSHITA Q6 2SA1532(BC) SI.TRANSISTOR MATSUSHITA
Q4 2SC3930(BC) TRANSISTOR MATSUSHITA Q5 2SC3930(BC) TRANSISTOR MATSUSHITA Q6 2SA1532(BC) SI.TRANSISTOR MATSUSHITA
Q5 2SC3930(BC) TRANSISTOR MATSUSHITA Q6 2SA1532(BC) SI.TRANSISTOR MATSUSHITA
Q6 2SA1532(BC) SI.TRANSISTOR MATSUSHITA
O7 29C3Q3O(BC) TBANGISTOR MATCHICHITA
LO SOCIONIDO INANSISTON MATSUSTINA
Q8 DTC124EU TRANSISTOR ROHM
Q9 2SB766(QR) TRANSISTOR MATSUSHITA
Q10 2SC3930(BC) TRANSISTOR MATSUSHITA
DO MATCHEUTA
D3 MA143A SI DIODE MATSUSHITA
D4 MA335 SI DIODE MATSUSHITA D5 MA142A DIODE MATSUSHITA
D5 MA142A DIODE MATSUSHITA D6 MA142A DIODE MATSUSHITA
D7 MA143A SI DIODE MATSUSHITA
D8 MA143A SI DIODE MATSUSHITA
D9 MA142A DIODE MATSUSHITA
D10 MA142A DIODE MATSUSHITA
D11 MA143A SI DIODE MATSUSHITA
D12 MA143A SI DIODE MATSUSHITA
D13 MA142A DIODE MATSUSHITA
D14 MA142A DIODE MATSUSHITA
D15 MA143A SI DIODE MATSUSHITA
D18 MA143A SI DIODE MATSUSHITA
R1 NRVA02D-1001 M.F.RESISTOR 1.00K 1/10W
R2 NRVA02D-4702 M.F.RESISTOR 47.0K 1/10W
R3 NRVA02D-1000 M.F.RESISTOR 100 1/10W
R5 NRVA02D-1001 M.F.RESISTOR 1.00K 1/10W
R6   NRVA02D-1003   M.F.RESISTOR   100K
R7   NRVA02D-1001   M.F.RESISTOR   1.00K
R8

[CP1]

Symbol No.	Part No.	Part Name	De	scription	Symbol No.	Part No.	Part Name		Description
R9	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W	R74	NRVA02D-6801	M.F.RESISTOR	6.80K	1/10W
R12	NRVA02D-1003	M.F.RESISTOR	100K	1/10W	R75	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W
R13	NRVA02D-1001	M.F.RESISTOR	1.00K	1/10W	R76	NRVA02D-1802	M.F.RESISTOR	18.0K	1/10W
					R77	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W
R14	NRVA02D-1001	M.F.RESISTOR	1.00K	1/10W				10.01	171044
R15	NRVA02D-1000	M.F.RESISTOR	100	1/10W	R78	NRVA02D-1802	M.F.RESISTOR	18.0K	1/10W
R16	NRVA02D-1000	M.F.RESISTOR	100	1/10W	R79	NRVA02D-3302	M.F.RESISTOR	33.0K	1/10W
R17	NRVA02D-4701	M.F.RESISTOR	4.70K	1/10W	R80	NRVA02D-6802	M.F.RESISTOR	68.0K	1/10W
R18	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W	R81	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W
R19	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W	R82	NRVA02D-4703	M.F.RESISTOR	470K	1/10W
R20	NRVA02D-1001	M.F.RESISTOR	1.00K	1/10W	R83	NRVA02D-4703	M.F.RESISTOR	470K	1/10W
R21	NRSA02J-ORO	M.G.RESISTOR	0	1/10W	R84	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R23	NRVA02D-3903	M.F.RESISTOR	390K	1/10W	R85	NRVA02D-1001	M.F.RESISTOR	1.00K	1/10W
R24	NRVA02D-1203	M.F.RESISTOR	120K	1/10W	R87	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W
					R88	NRVA02D-2702	M.F.RESISTOR	27.0K	1/10W
R25	NRVA02D-1001	M.F.RESISTOR	1.00K	1/10W					.,,,,,,,
R26	NRVA02D-1003	M.F.RESISTOR	100K	1/10W	R89	NRVA02D-3901	M.F.RESISTOR	3.90K	1/10W
R27	NRVA02D-1003	M.F.RESISTOR	100K	1/10W	R90	NRVA02D-1003	M.F.RESISTOR	100K	1/10W
R28	NRVA02D-22R0	M.F.RESISTOR	22.0	1/10W	R91	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R29	NRVA02D-1000	M.F.RESISTOR	100	1/10W	R92	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W
R30	NRVA02D-1000	M.F.RESISTOR	100	1/10W	R93	NRVA02D-1801	M.F.RESISTOR	1.80K	1/10W
R32	NRVA02D-1000	M.F.RESISTOR	100	1/10W	R94	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R33	NRVA02D-1000	M.F.RESISTOR	100	1/10W	R95	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R34	NRVA02D-1000	M.F.RESISTOR	100	1/10W	R96	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R35	NRVA02D-1001	M.F.RESISTOR	1.00K	1/10W	R97	NRVA02D-1502	M.F.RESISTOR	15.0K	1/10W
					R98	NRVA02D-4701	M.F.RESISTOR	4.70K	1/10W
R36	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W					.,,,,,,,,
R37	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W	R99	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W
R38	NRVA02D-2201	M.F.RESISTOR	2.20K	1/10W	R100	NRVA02D-2201	M.F.RESISTOR	2.20K	1/10W
R39	NRVA02D-1000	M.F.RESISTOR	100	1/10W	R101	NRVA02D-1500	M.F.RESISTOR	150	1/10W
R40	NRVA02D-1001	M.F.RESISTOR	1.00K	1/10W	R102	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R41	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W	R103	NRSA02J-ORO	M.G.RESISTOR	0	1/10W
R42	NRVA02D-1003	M.F.RESISTOR	100K	1/10W	R104	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R43	NRVA02D-1003	M.F.RESISTOR	100K	1/10W	R105	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R44	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W	R106	NRVA02D-22R0	M.F.RESISTOR	22.0	1/10W
R45	NRVA02D-3301	M.F.RESISTOR	3.30K	1/10W	R107	NRVA02D-1000	M.F.RESISTOR	100	1/10W
D.40	N.D				R108	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R46	NRVA02D-1003	M.F.RESISTOR	100K	1/10W					
R47	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W	R109	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R49	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W	R110	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R50	NRVA02D-1202	M.F.RESISTOR	12.0K	1/10W	R111	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R51	NRVA02D-1003	M.F.RESISTOR	100K	1/10W	R112	NRVA02D-1003	M.F.RESISTOR	100K	1/10W
R52 R53	NRVA02D-1003 NRVA02D-1202	M.F.RESISTOR	100K	1/10W		NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W
R54	NRVA02D-1202 NRVA02D-1003	M.F.RESISTOR	12.0K	1/10W	R114	NRVA02D-4702	M.F.RESISTOR	47.0K	1/10W
R55		M.F.RESISTOR	100K	1/10W	R115	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W
R56	NRVA02D-2202 NRVA02D-2203	M.F.RESISTOR	22.0K	1/10W	R116	NRVA02D-2702	M.F.RESISTOR	27.0K	1/10W
1100	NH V A02D-2203	M.F.RESISTOR	220K	1/10W	R117	NRVA02D-1802	M.F.RESISTOR	18.0K	1/10W
R57	NRVA02D-1202	M.F.RESISTOR	12.06	1/10/4/	R118	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R58	NRVA02D 1202	M.F.RESISTOR	12.0K 330K	1/10W	D110	AIDVAAAAD ATAA			
R59	NRVA02D-1003	M.F.RESISTOR	100K	1/10W	R119	NRVA02D-4700	M.F.RESISTOR	470	1/10W
R61	NRVA02D-1003	M.F.RESISTOR	1.00K	1/10W	R120	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R62	NRVA02D-6802	M.F.RESISTOR		1/10W	R121	NRVA02D-1000	M.F.RESISTOR	100	1/10W
R63	NRVA02D-0802	M.F.RESISTOR	68.0K 270K	1/10W 1/10W		NRVA02D-1000	M.F.RESISTOR	100	1/10W
R64	NRVA02D-1003	M.F.RESISTOR	100K	1	1	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W
R65	NRVA02D-1003	M.F.RESISTOR	1.00K	1/10W 1/10W	1 1	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W
R66	NRVA02D-1003	M.F.RESISTOR	1.00K	1/10W	R125 R126	NRVA02D-4701	M.F.RESISTOR	4.70K	1/10W
R67	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W	1	NRVA02D-1002 NRVA02D-1003	M.F.RESISTOR	10.0K	1/10W
ļ			22.01	171000	1112/	MITAMOZD-1003	M.F.RESISTOR	100K	1/10W
R68	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W					
R69	NRVA02D-1502	M.F.RESISTOR	15.0K	1/10W	VR1	NVP1415-502	TRIM.RESISTOR	Ev	
	NRVA02D-2202	M.F.RESISTOR	22.0K	1/10W	1 1	NVP1415-502	TRIM.RESISTOR	5K	B-G B-C
	NRVA02D-4702	M.F.RESISTOR	47.0K	1/10W	1 1	NVP1415-502	TRIM.RESISTOR	5K	R-G
	NRVA02D-1002	M.F.RESISTOR	10.0K	1/10W		NVP1415-303	TRIM.RESISTOR	50K 100K	NAM LEVEL A/D OFFSET
R73	NRVA02D-4701	M.F.RESISTOR	4.70K	1/10W	1 6	NVP1415-503	TRIM.RESISTOR	50K	
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Symbol No.	Part No.	Part Name	Description	
C1	NCB21EK-473	CER.CAPACITOR	0.047 25	V
C2	NCB21HK-562	CER.CAPACITOR	5600P 50V	
C3	NEF11CM-105	TAN.CAPACITOR	1.0 16	
C5	NCT03CH-820	CER.CAPACITOR	82P 50V	
C7	NCT03CH-150	CER.CAPACITOR	15P 50V	
C8	NCB21EK-473		0.047 25	
		CER.CAPACITOR	1	
C9	NCT03CH-821	CER.CAPACITOR	820P 50V	
C10	NCB21EK-473	CER.CAPACITOR	0.047 25	
C11	NCT03CH-181	CER.CAPACITOR	180P 50\	
C12	NCT03CH-151	CER.CAPACITOR	150P 50\	۷
C14	NCB21EK-473	CER.CAPACITOR	0.047 25	
C15	NCB21EK-473	CER.CAPACITOR	0.047 25	
C16	NCB21EK-473	CER.CAPACITOR	0.047 25\	
C17	NCB21EK-473	CER.CAPACITOR	0.047 25\	
C18	NEF11AM-156	TAN.CAPACITOR	15 10\	٧
C19	NCF21EZ-104	CER.CAPACITOR	0.10 25\	<b>v</b>
C20	NCB21EK-473	CER.CAPACITOR	0.047 25\	v
C21	NCB21EK-473	CER.CAPACITOR	0.047 25\	v
C22	NCB21EK-473	CER.CAPACITOR	0.047 25\	<i>v</i>
C23	NCB21EK-473	CER.CAPACITOR	0.047 25\	v
C24	NCB21EK-473	CER.CAPACITOR	0.047 25\	,
C25	NCB21EK-473	CER.CAPACITOR	0.047 25\	
C26	NCB21EK-473	CER.CAPACITOR	0.047 25\	
C27	NCF21EZ-104	CER.CAPACITOR	0.10 25\	
C28	NCB21EK-473	CER.CAPACITOR	0.047 25\	
C29	NCB21EK-473	CER.CAPACITOR	0.047 25\	
C23				
	NCB21EK-393	CER.CAPACITOR	0.039 25\	
C33	NEF11CM-105	TAN.CAPACITOR	1.0 16\	
C34	NEN11HM-105	E.CAPACITOR	1.0 50\	
C35	NCT03CH-150	CER.CAPACITOR	15P 50\	<b>'</b>
C36	NCB21EK-473	CER.CAPACITOR	0.047 25\	,
C37	NEF11AM-475	TAN.CAPACITOR	4.7 10\	/
C38	NEF11CM-105	TAN.CAPACITOR	1.0 16\	/
C39	NCF21EZ-104	CER.CAPACITOR	0.10 25\	/ [
C40	NCB21EK-473	CER.CAPACITOR	0.047 25\	/
C41	NEA11EM-106	E.CAPACITOR	10 25\	/ I
C42	NCB21EK-473	CER.CAPACITOR	0.047 25\	i
C43	NEA11CM-476	E.CAPACITOR	47 16\	- 1
C44	NEA10JM-107	E.CAPACITOR	100 6.3	- 1
C45	NEA10JM-107	E.CAPACITOR	100 6.3	
040	NEATOSIN 107	L.OAI ACITOII	0.50	<b>'</b>
C46	NEA10JM-107	E.CAPACITOR	100 6.3V	/
C47	NEN11HM-105	E.CAPACITOR	1.0 50\	/
C52	NCB21EK-473	CER.CAPACITOR	0.047 25V	/
C53	QEZ0171-224	E.CAPACITOR	0.22	ı
C54	NCB21EK-473	CER.CAPACITOR	0.047 25\	/ I
C56	NCT03CH-221	CER.CAPACITOR	220P 50V	
C57	NFV11EJ-104	MYLAR CAPACITOR	0.10 25	- 1
C58	NEF11AM-156	TAN.CAPACITOR	15 10	- t
C59	NFV11EJ-104	MYLAR CAPACITOR	0.10 25V	
C60	NEF11EM-475	TAN.CAPACITOR	4.7 25	- 1
C61	NCF21EZ-104	CER.CAPACITOR	0.10 25V	,
L1	SSV1330-150	COIL	15μH	
L2	SSV1330-150	COIL	15μH	-
L3	SCV1950-220	PEAKING COIL	22μH	l
L4	SCV1950-4R7	PEAKING COIL	4.7μH	
X1	SCV2029-001	CRYSTAL	7.373 MHz	

Symbol	Part No.	Part Name	D
No.	Part No.	Part Name	Description
S1	SCV2247-004	SWITCH	CHECK
CN18	SCV1770-009	CONNECTOR	9 PIN
CN27	SSV1321-020	CONNECTOR	20 PIN
CN28	SSV1321-020	CONNECTOR	20 PIN
CN43	SCV1770-004	CONNECTOR	4 PIN
CN44 CN45	SCV1814-008 SCV1814-008	CONNECTOR CONNECTOR	8 PIN 8 PIN
CN46	SCV1814-008	CONNECTOR	8 PIN
CN47	SCV1814-008	CONNECTOR	8 PIN
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